Form approved. Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DESIGNATION AND SERIAL NO. U - 31805GEOLOGICAL SURVEY 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME PLUG BACK DEEPEN DRILL 🗵 b. TYPE OF WELL MULTIPLE ZONE S. FARM OR LEASE NAME SINGLE WELL X OTHER FEDERAL 2. NAME OF OPERATOR 9. WELL NO. MEGADON ENERGY CORPORATION #1-15 3. ADDRESS OF OPERATOR SUITE 440, 57 WEST SO. TEMPLE, SALT LAKE CITY, UTAH 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface NW. SW. SEC. 15, T 23S, R 17E, SLM SALT WASH 11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
NW.SW. SEC. 15-23S-17E. At proposed prod. zone 1857' FR. S-LINE & 529' FR. W-LINE 12. COUNTY OR PARISH | 13. STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* UTAH GRAND APPROX. 15 MILES SE. OF GREEN RIVER, UTAH 17. NO. OF ACRES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE 15. DISTANCE FROM PROPOSED®
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, I 40 ACRES 235.49 (Also to nearest drig, unit line, if any) 20. ROTARY OR CABLE TOOLS 19. PROPOSED DEPTH 18. DISTANCE FROM PROPOSED LOCATION^a
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. ROTARY
22. APPROX. DATE WORK WILL START* 8750<u>'</u> 21. ELEVATIONS (Show whether DF, RT, GR, etc.) JAN. 15, 1981 4295' K.B. GRD: PROPOSED CASING AND CEMENTING PROGRAM $\overline{23}$. QUANTITY OF CEMENT WEIGHT PER FOOT SIZE OF CASING SIZE OF HOLE 1300¹ 300 sks 95/8" 36.00# 12支''

It is planned to drill a well at the above location to test the hydrocarbon production possibilities of all formations down to and including the Mississippian formation at a depth of about 8000'. There will be about 1000' of surface casing (9 5/8") set thru the Shinarump formation to protect possible uranium mines in the area. Hydraulically operated blowout preventer and hydril will be mounted on top of the surface casing for control equipment. The well will be drilled with rotary tools using mud for circulation. All hydrocarbon shows will be drill-stem-tested. In case of production, $5\frac{1}{2}$ " casing will be set and cemented with sufficient cement to bring the cement above the top of the salt. The well will then be completed conventionally. See attached prognosis.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

reventer program, if any.		
signed St. Don Jung	Ly PRESIDENT	NOV. 17, 1980
(This space for Federal or Standoffice (Se)	1110	`
PERMIT NO.	APPROVAL DATE	
APPROVED BY	TITLE	THE DIVISION
	W. CALLEY 17	180 T
	*See Instructions On Reverse SignATE:	to sight

LOCATION PLAT FOR MEGADON ENERGY CORPORATION SALT WASH #1-15 WELL NW.SW.SEC.15-23S-17E GRAND COUNTY, UTAH Elev.: 4287'grd. 10 才 cor. (1857'fr.s-line & 529'fr.W-line) Location-529'-- 150'+ Star.3 SW社 SECTION 15

Scale: 1 in.= 400 ft. Date: Nov.18,1980

I, Sherman D. Gardner, do hereby certify that this plot was plotted from notes of a field survey made under my direct responsibility, supervision, and Thecking on Oct. 10,1980.

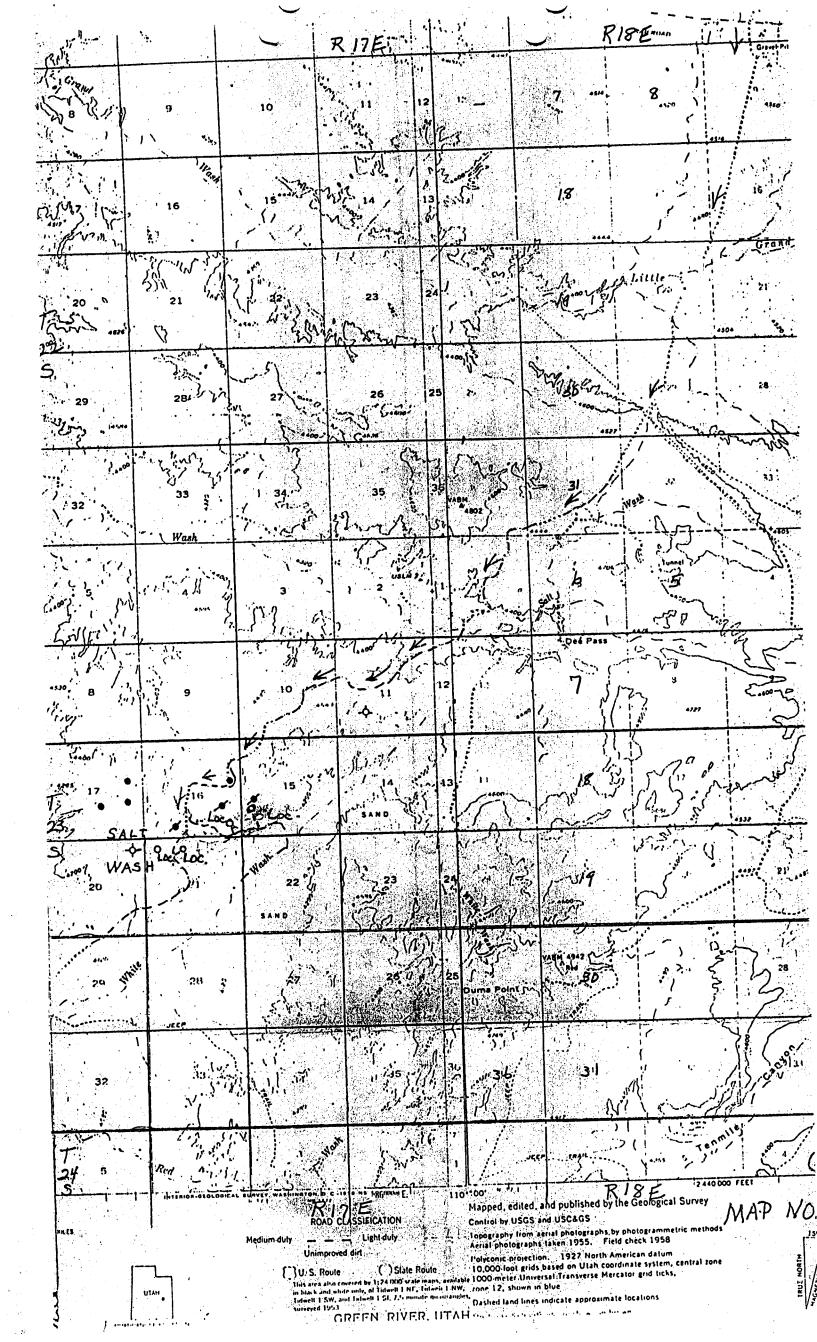
Ref. pts. are 150 ft.N-S-E-W

16

 $2\overline{1}$

Registered Land Surveyor State of Utah #1556

PLAT NO.1



roim: DQ-1-79

NTL-6 PLAN REPORT

For

Well Name: SALT WASH #1-15 WELL

Location: NW. SW. SECTION 15-23S-17E, GRAND COUNTY, UTAH

- 1. Existing Roads: (See attached Maps)
 - A. Well Location: (See Plat #1)

Reference Stakes: 150 feet N-S-E-W

Perimeter Stakes: Above reference stakes mark perimeter of pad.

- B. Route and Distance to Well Site From Reference Point: (See att. maps)

 I-70 (Route 50-6) east from Green River, Utah for 13 miles to Floy

 Jct. then 13 miles southwest to Salt Wash Field.
- C. Access Roads (Identify secondary roads to be used): (See att. maps)

 The secondary road from Floy Jct. to the field and location is used

 for 13 miles and then approx. I mile east down over a hill to a jct.

 with an old abandoned road, and then I mile to the well site. With

 the exception of the last I mile of road these roads are improved
 and well used.
- D. Roads Within 3 mile Radius: (See att. maps) Most of the unused roads in the area are trails (10' wide) and are not improved. The Salt Wash field roads are graded, crowned, and ditched, and are well used.

Surface type and conditions: <u>The road surface is sand, clay, and some gravel which is well packed in most places.</u> The surface material is natural and has not been hauled in.

- E. Roads Within 1 mile Radius: (See att. maps) See 1-D Above.

 Some of the roads are very sandy and have to be 50 or more feet wide (disturbed surface) to allow a free travel surface of approx. 20-25'.

 Many of the roads are trails with natural surface and have little travel.
- F. Plans for Road Improvement & Maintenance: The last ½ mile of abandoned road to the well site will be improved, graded, crowned, and ditched. There are places with sand which will have to be

	F.	pushed aside down to a firm base. These places may be 50' wide or
		more. In general, the road will be confined to 20 feet travel sur-
		face with a maximum of 30 ft. disturbed width.
2.	Pla	nned Access Roads: (See att. maps) ½ mile of improved road.
	<u></u>	
		Width: 30 ft. disturbed width w/some 50 ft. places.
		Maximum Grades: 6%
		Turnouts: None
		Drainage Design: <u>Ditched</u>
	(5)	Location and Size of Culverts, Cuts, and Fills: No culverts, and no
		large cuts or fills. One wash will have a shallow crossing and the
		banks will be cut down about 4 ft. on each side of the wash.
	(6)	Surfacing Material: Some gravel or rock may be placed on the sandy
		spots if required.
	(7)	Gates, Cattleguards, or Fence Cuts: None
	(8)	All new roads have been flagged as required.
3.	Loc	ation of Existing Wells: (See Map No. 1)
	(1)	Water Wells: None
		Abandoned Wells: 3 or 4
		Temporarily Abandoned Wells: None
		Disposal Valle: One
		Drilling Wells: One
		Producing Wells: 3
		Shut-in Wells: 3
		Injection Wells: None
		Monitoring or Observation Wells: None
	(-)	
4.	Loca	ation of Existing and/or Proposed Facilities:
	Α.	Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:
		(1): Tank Batteries: (Size) None

(2)	Production Facilities: None
(3)	Oil gathering lines: None
(4)	Gas gathering lines: None
(5)	Injection lines: None
(6)	Disposal lines: None
(7)	Are lines buried? None
(The real (See	new facilities are contemplated, in the event of production, showese facilities depend on the outcome of the proposed well and are ally unknown at this time.) Show a general proposed plan. e Plat No. 2) Are any facilities planned off well pad? No facilities off the
	at the present time. The operator may have completed another nearby before the subject well is drilled.
three (3) on general the will will	Give dimensions of facilities: Tank batteries will be two or ee 310 bbl, tanks (Approx. 20' high X 12' dia). Separator will 'X16'. Pad size will be 200' X 150'. Construction methods and materials: Tank batteries will be placed and surrounded by a 3' high dike which is 15' from sides of the tanks. Heater-treaters and pump jacks, if required, be placed on concrete blocks or raised dirt and gravel pads. pipe lines on the pad will be buried. Unused portions of the page
cont	be graded and reseeded. Any fluid pit will be diked, neatly toured, and fenced.
(4) will	Protective measures for livestock and wildlife: All open pits be fenced with barbed wire, 4strands, and covered with steamers
(4) will to p	Protective measures for livestock and wildlife: All open pits

Plan for rehabilitation of disturbed areas no longer needed after drilling operations are completed: Well site will be cleaned, levelled, and graded for production equipment; pits folded-in or fenced

- C. with barbed wire if full of fluid before rig is removed. While production ensues, previous areas of the well pad not needed for production operations will be restored as in Item 10 below. Cleaning the site and pit work will be done within 30 days after the well is completed, if possible.
- 5. Location & Type of Water Supply: (See att. maps)
 - A. Type of Water Supply: Fresh water will be hauled from the Green River by truck. Salt water will be hauled from Moab by truck. Permission for fresh water granted by Gene Dunham (Rancher).
 - B. Method of Transporting Water: <u>Hauled by truck from the Green River</u> or from Moab.
 - C. Is Water Well Planned? One may be drilled on the pad.

 If so, describe location, depth and formation: On the pad to a depth of about 120 feet into the Entrada sandstone formation. Surface hole encountered a flow of water of about 30 gal/min. at 100 feet.
- 6. Source of Construction Materials:
 - A. See attached map and describe: None probably needed; but if some is needed for the site or road it can be obtained from a bald hill top at the jct. with the present road and the abandoned road to the well site.
 - B. Identify if Federal, Indian, or Fee Land: State Land
 - C. Describe Material: (Where from and how used) Gravel or rock from the place described in A above.
 - D. See item 1-C and 2 above.
- 7. Waste Disposal:
 - (1) Cuttings: Cuttings will be deposited into the reserve pit.
 - (2) Drilling Fluids: In mud tanks; excess put into reserve pit.
 - (3) Producing Fluids (oil or water) Oil in tanks; water in reserve pit.
 - (4) Human Waste: Toilet with pit (4' deep) with lime for odor and sanitation control, Will be covered with soil (3' deep) at end of operation.

of drilling (5) Garbage & Other Waste: (Burn pit will be adequately fenced with chicken wire to prevent scattering of debris by wind) Into burn pit (14'X12'X16' deep) and burned periodically. The burn pit will be

prior to commencement

approx. placed 125' from well head.
(6) Clean-up: (See item 10 below) All garbage and unburned debris will be buried by at least 3' of cover after the drilling and completion operations are finished. The unused material and all equipment will be removed from the site and taken to supply yards or to the next drill site, as soon as the well is completed.

- 8. Airstrips and/or Camp Sites (Describe): There is an airstrip on the top of the hill at the Salt Wash Field and this may be used occassionally to bring in equipment or personnel.
- 9. Well Site Layout: (See Plat No. 3)
 - (1) Describe cuts or fills: The location is on a gentle slope which slopes to the SE. The north and west sides will be cut by about 10' and the south and east sides built up by about 5'. The northeast side is on a previous well pad.
 - (2) Describe pits, living facilities, soil stockpiles: The reserve pit will be on the southeast side and will be about 200' X 75' and 6'D, with banks of 4'. Top soil will be piled at the NW and SW ends of the site. Approx. 12" of top soil will be removed. Two or three house trailers will be provided for supervisory personnel.
 - (3) Rig Orientation, Pipe rack, Access Road Entrance, etc.: (See Plat #3) See Plat #3
 - (4) Are Pits Lined? Unlined 6 ft. deep 4 ft. banks

10. Plans For Restoration:

- If Well is completed: Site will be cleaned, debris removed, pits folded-in or fenced with woven wire if full of fluid, and site levelled for production equipment. All unused portions will be contoured graded, scarred, and seeded with wheat and rice grass or acceptable seed mix authorized by BLM. The seed will be drilled & sown at a 2" depth. If Well is abandoned:
- (1) Clean-up, levelling, folding pits-in, contouring: These items will be done as soon as possible. Clean-up will be accomplished at

WELL CONTROL EQUIPMENT FOR MEGADON ENERGY CORP. FED. #1-15 WELL NW. SW. SEC. 15-23S-17E. GRAND COUNTY, UTAH

The following control equipment is planned for the above designated well:

1. Surface Casing:

A. Hole size for the surface casing is 12½".

B. Setting depth for surface casing is approx. 1300'.

- C. Casing specs. are: 9 5/8" 0.D., J-55, 36.00#, 8-rd. thread, new or used.
- D. Anticipated pressure at setting depth is approx. 700 lbs.
- E. Casing will be run and cemented with 300 sks of cement and with returns to the surface.
- F. Top of casing will be at ground level.
- Casing Head: Flange size: 10"; A.P.I. Pressure Rating: 3000#; Series 900; Cameron, O.C.T., or equivalent; new or used; equipped with two 2" ports with nipples and 2", 3000# W.P. valves. Casing head and valves will be set above ground.
- Intermediate Casing: None

4. Blowout preventers:

A. Double rams; hydraulic; one set of blind rams for 4" drill pipe; 10" flange; 3000# W.P.; Series 900; equipped with mechanical whe 1s and rod for back-up; set on top of casing head and bolted down securely; pressure tested for leaks up to 2000#; Cameron, Shaffer, or equivalent. A hydril and rotating head will also be used.

B. The fill and kill line are to be connected to the 2" valve in the casing head and are to be heavy duty line pipe or tubing. The kill line will be connected to the mud pump and the flow line will be directed into the reserve pit.

- A float valve (3000# W.P.) is to be used in the bottom drill collar at all times. A kelly valve (at least 3000# W.P.) will be installed in the stand pipe and a vlave with proper sub will be available for stabbing in the drill pipe or drill collars.
- 6. Anticipated Pressures:
 The shut-in pressure of the Mississippian formation at a depth of about 9000 has been recorded at about 4000#, in the Salt

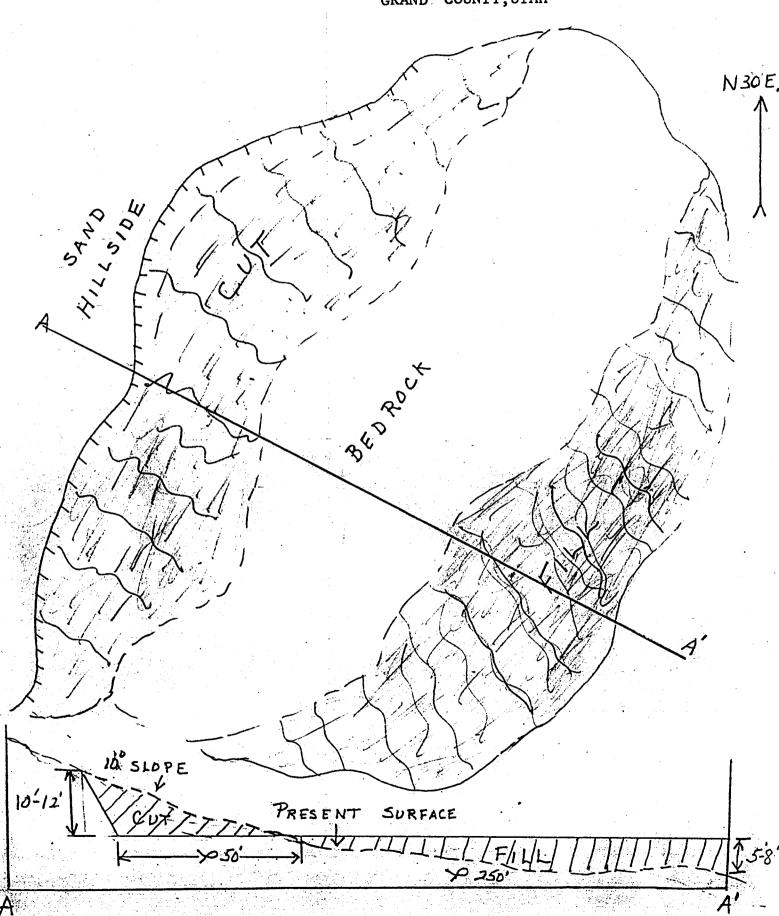
- . It is planned to set and cement one jt of 13 3/8" casing for a conductor and then to drill a 12½" surface hole for the surface casing to a depth of about 1300'. (This depth will be sufficient to set the casing thru the porous sands for the protection of possible loss-circulation problems.) Casing, 9 5/8", 36.00#, K-55, R-3, will be run and cemented with 300 sks of cement with returns to the surface. The surface hole will be drilled with air and air mist and a deviation of no more than 2° will be maintained. A casing head, Series 900, will be mounted on top of the casing and a blowout preventer with hydraulically operated blind and pipe rams, and a hydril, will be mounted on the casing head. Fill and kill lines will be connected thru a manifold to the casing head below the blind rams. As soon as the cement plug is drilled out of the surface casing, the B.O.P. and hydril and surface casing will be tested to 2000# for leaks.
- 2. A 8 3/4" hole will then be drilled below the surface casing to a depth of about 5000', using air and/or mist for circulation. At this point, the air system is to be changed over to a salt base mud to permit drilling the salt section below. All subsequent shows of hydrocarbons will be drill-stemtested. Particular attention will be given to the Cane Creek zone near the base of the salt section. This zone can be productive and is very susceptible to formation damage by the drilling fluids and cement. No barite (barium sulfate) is to be used at any time, if it can possibly be avoided.
- 3. The hole will be kept straight by stabilization or thru drilling methods. Deviation surveys will be taken at 600' intervals. Maximum deviation will be kept below 6°, if possible, and the maximum drift between surveys will be 2°.
- 4. Samples of the cuttings will be taken at 30-ft. intervals, beginning at 800', and continuing to a depth of about 6000' or when conversion to mud drilling is begun, then 10' samples will be taken.
- 5. The well will be drilled to a depth which is at least 300 ft. below the top of the Mississippian formation or to good commercial production. In the event of good production before the Mississippian is reached, the drilling may be discontinued at this point and 5½" casing run to permit drilling deeper at a

later date. The mud program will be supervised by the company representative.

- 6. At total depth, the well will be logged electrically; and a Gamma-Induction log and a Gamma-Density-CNL log will be run.
- 7. If production is obtained in the Mississippian, casing, 5½", 23.00#, N-80, R-3 will be run from about 8700' to about 5000' and 5½", 17.00# casing will be run from 5000' to surface, and cemented with about 200 sks of RFC cement and 800 sks of Pozmix (50-50) light cement w/5% salt, 5% gilsonite, and 6% salt. Sufficient cement to cover the salt section will be used.
- 8. A gamma-cement bond log will be run and the production zone perforated, 2 3/8" tubing run, and completed conventionally. It may be necessary to break down the formation with a weak acid treatment which would be swabbed out immediately after treatment.
- 9. The drilling of this well shoud take about one month and completion work should take about ten days.

W. Don Quigley/
MEGADON ENERGY CORPORATION
Suite 440, 57 W. So. Temple
Salt Lake City, Utah 84101

CUT AND FILL SKE H
FOR SALT WASH FED. #1-15 WELL
NW.SW.SEC. 15-23S-17E
GRAND COUNTY, UTAH



Wash Field. This will be the pressure that will be considered in the control program for the mud.

7. Drilling Fluids:

Normal mud or air will be used to drill the well down to the top of the salt section of the Paradox Formation, which is expected at a depth of about 5100'. At a depth of about 5000', the fresh water mud will be converted to salt base mud to prevent wash-outs in the salt section. This will also give a mud weight of over 10#/gal. which will provide for a hydrostatic pressure of about 4600# at 9000', which should be sufficient over balance to hold the pressure of the potential reservoir at this depth. No toxic gases are anticipated.

8. Production Casing:

A. Hole size for production casing is 8 3/4".

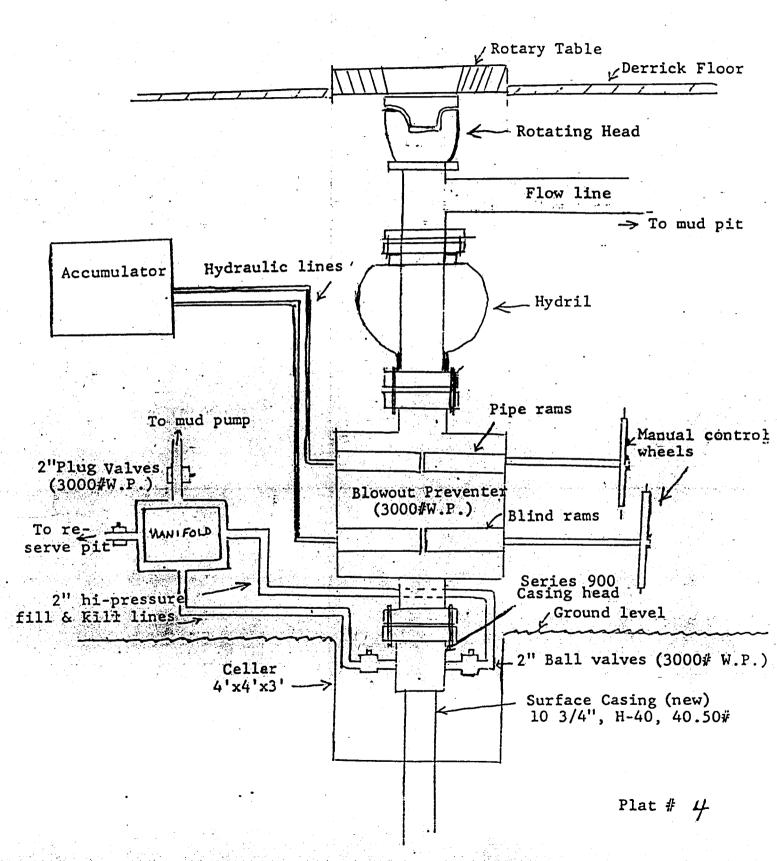
B. Approx. setting depth is 8700', which should be about

250' into the Mississippian formation.

C. Casing specs are: 5½" O.D.; N-80 for lower 4000'- 23.00#; J-55 for upper 5000' - 15.50# or 17.00# which ever is available.

D. Casing will be run and cemented with approx. 1000 sks in stages. The bottom of the casing, from 8750' to 8000', will be cemented first with about 200 sks; this will be allowed to set and then the rest of the cement will be used to cement the salt section. This will prevent undue hydrostatic pressures on the production zone. After the cement cures the casing will be set on slips in the casing head. Tubing, 2" T.D., will be run; plugs will be drilled out; tubing will be set in tubing head which is securely bolted to the casing head; and then the well will be perforated under a water cushion at the proper intervals.

SCHEMATIC DIAGRAM (
CONTROL EQUIPMENT FOR THE
MEGADON ENERGY CORP.
FED. #1-15 WELL
NW . SW. SEC. 15-23S-17E.
GRAND COUNTY, UTAH



PROGNOSIS FOR MEGADON ENERGY CORPORATION SALT WASH #1-15 WELL NW. SW. SECTION 15-23S-17E. GRAND COUNTY, UTAH

LOCATION: NW. SW. Section 15, T 23S, R 17E, SLM, Grand County, Utah

(1857' from S-line and 529' from W-line).

ELEVATION: 4287' Grd; 4305' K.B.

SURFACE CASING: One joint of conductor pipe (13 3/8" or equivalent) will be set and cemented manually at the surface; then a 12½" hole will be drilled to a depth of 1300' for the surface casing. 1300 ft. of 9 5/8", 36.00#, K-55 casing will be set and cemented with 300 sks. of reg cement w/3% CaCl, with returns to the surface. Casing will be set with a guide shoe and six (6) centralizers. A casing head, Series 900 with #10 flange, will be installed on top of the casing. The cement will be allowed 12 hours to set before nippling up.

EXPECTED FORMATION TOPS:

<u>Formation</u>	Depth to Top	Thickness	Datum
Entrada	Surface	200¹	4295' K.B.
	200'	50'	4095'
Carmel Navajo	250 '	600'	4045'
Kayenta	850 '	50 '	3445 '
Wingate	900'	400'	3395 '
Chinle	1300'	300'	2995 '
Shinarump*	1600'	80'	2695 '
Moenkopi	1680'	450'	2615'
Kaibab*	2130'	170'	2165'
Coconino	2300'	680 '	1995'
Wolfcamp	2980'	600 '	1315'
Hermosa*	3580'	1550 '	715'
Paradox Salt* Pinkerton Trail*	5130'	3100'	-835'
	8230'	2 1 0'	-3935'
Mississippian* TOTAL DEPTH	8440' 8750'		-4145'

^{*}Formations which may have hydrocarbons

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and that work associated with the operations proposed herein will be performed by MEGADON ENERGY CORPORATION and its contractors in conformity with this plan and terms and conditions under which it is approved.

Date: NOV. 17, 1980 Name: 1.N.4

Title: PRESIDENT

- B. (1) the time the rig is removed. The reserve pit, if full of fluid, will be fenced immediately and allowed to evaporate before folding-in. The rest of the work will be done within 10-60 days after completion. (2) Seeding location and access road: Site will be scarred with a dozer or spike tooth drag and the grass seed or seed mix authorized by BLM will be drilled to a depth of ½". The access road, if no longer needed, will be erased, scarred, and seeded as above. Water bars will be placed where needed.
 - (3) Will pits be fenced or covered? If there is any amount of fluid in reserve pit, it will be fenced with barbed wire before rig is released and remain fenced until the fluid evaporates.

(4) Is there any oil in reserve pit? Should be none.

If so, describe disposal: <u>If there is any oil in the pit</u>, it will be pumped out and removed before covering the pit.

(5) When will restoration work be done? As soon as possible. Within 60 days after equipment is removed, if weather and availability of clean-up equipment permit, and will be completed within 10 days thereafter.

11. Description of Land Surface:

- (1) Topography & Surface Vegetation: Location is on a sandy slope and at the side of a previous well site, part of which will be used for the subject site. The surface is mostly sand with some shale and siltstone. The vegetation is sparse sagebrush, shad scale, etc.
- (2) Other Surface Activities & Ownership: This is in a developed oil field with other drilling in the area. Some cattle grazing is present.

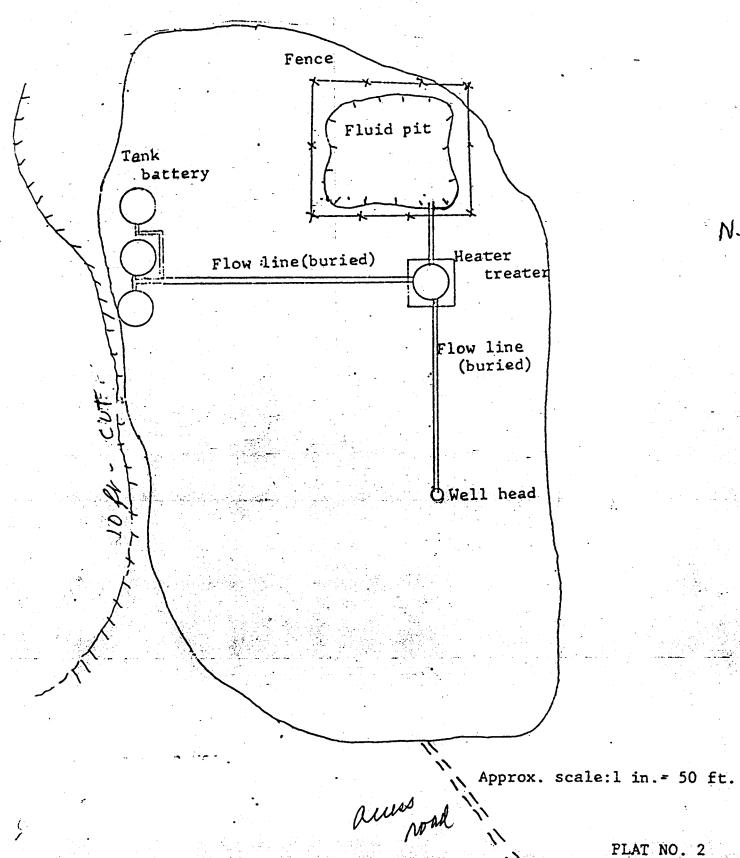
 There is a surface mining operation in the area (decorative rock). The minerals and surface are owned by the Government and the oil and gas least is owned by Getty Oil Co.
- (3) Describe other dwellings, archaeological, historical, or cultural sites: There are no dwellings or buildings in the nearby area other than a trailer or two for the above mine. Other oil wells, tanks, separators, etc. are present. There are no known archaeological, historical, or cultural sites or exhibits in the nearby area. An archaeological report on the area will be submitted separately.
- 12. Operators Representative: (Address & Phone number)

W. DON QUIGLEY, Suite 440, 57 West So. Temple, Salt Lake City, Utah 801-359-3575

FOR MEGADON ENERGY CORP. FED. #1-15 WELL NW. SW. SEC. 15-23S-17E. GRAND COUNTY, UTAH Jop Soil Fenced w/chicken BURN PIT wire " Toilet [Fenced on Mud house Butane tank N30°E Fuel tank Reserve Pit House trailers mud tank Mud pumps 6'0 M.G.se□ Rig Tool house-Acc.house Dog house Hole -Pipe Pipe rack rack Cat walk Approx.scale:1 in.=50 ft access "Rd -1 PLAT NO.3

DRILLING EQUIPMENT LAYOUT

PLAN FOR PRODUCTION EQUIPMENT MEGADON ENERGY CORP. FED. #1-15 WELL NW. SW. SEC.15-23S-17E. GRAND COUNTY, UTAH



PLAT NO. 2

** FILE NOTATIONS **

4.04		
DATE: 12-3-80	1	`
OPERATOR: Megadan Energy	Cryp.	
OPERATOR: Megaden Energy. WELL NO: Feel 1-15		
Location: Sec. <u>/5</u> T. <u>235</u> R	17E County: <u>Mrus</u>	d
File Prepared: Ent	ered on N.I.D:	
Card Indexed: Com	pletion Sheet: 7	
API Number 47	30752	_
CHECKED BY:		
Petroleum Engineer:		
Director: 0 K curds sule C-3	2	
Administrative Aide:		
APPROVAL LETTER:		
Bond Required:	Survey Plat Required:	
Order No.	O.K. Rule C-3	
Rule C-3(c), Topographic Exception - within a 660' radius of	company owns or controls proposed site	acreage
Lease Designation Dell	Plotted on Map	CONFIDENTIAL PERIOD EXPIRED
/ Approval Letter	written	ON_
Hot Line P.I.	<u> </u>	nelected 94

December 9, 1980

Megaden Energy Corporation Suite 440, 57 West S. Temple Salt Lake City, Utah 84101

Re: Well No. Federal 1-15 Sec. 15, T. 23S, R. 17E Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771

Home: 876~3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30752.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Frank Durch Alba

Cleon B. Feight Director

/ka

cc: USGS

	INTED STATES	SUBMIT IN TRIPLICATES	Form approve Budget Rures 5. LEASE DESIGNATION	u No. 42-R1424.
	EOLOGICAL SURVEY	101(retre pine)	U-31805	
	CES AND REPORTS	ON WELLS back to a different reservoir.	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1.			7. UNIT AGREEMENT NA	ME
OIL GAS WELL OTHER 2. NAME OF OPERATOR		•	8. FARM OR LEASE NAM	(E
MEGADON ENERGY CORP	ORATION		FEDERAL	
3. ADDRESS OF OPERATOR		THE TAKEN OF THE A	9. WELL NO.	
SUITE 440, 57 WEST LOCATION OF WELL (Report location closes also space 17 below.)	early and in accordance with any	LT LAKE CITY, UTA	10. FIELD AND POOL, OF	WILDCAT
At surface		•	SALT WASH	LK. AND
NW. SW. SECTION 1 1857' FR. S-LINE			NW.SW. SEC.1	L5-23S-17E.
16. PERMIT NO.	15. ELEVATIONS (Show whether DE		SLM. 12. COUNTY OR PARISH	13. STATE
		4295' K.B.	GRAND	UTAH
16. Check Ap	propriate Box To Indicate N	lature of Notice, Report, or C	Other Data	
NOTICE OF INTENT	MON TO:	SUBSEQU	UENT REPORT OF:	
TEST WATER SHUT-OFF P	CLL OR ALTER CASING	WATER SHUT-OFF	REPAIRING W	
	BANDON*	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING CA	
	HANGE PLANS	(Other) INFORMAT	of multiple completion of	X X
(Other) 17. DESCRIBE PROPOSED OR COMPLETED OPER	ATIONS (Clearly state all pertinen	Completion or Recompi	Including estimated date	m.)
proposed work. If well is direction nent to this work.)	ally drilled, give subsurface locat	tions and measured and true vertice	il depths for all markers	and zones perti-
THE LOCATION AND ROMOVE IN A SMALL RIG WHICH SHOULD BE WITH CASING FOR CONDUCTOR A RAT HOLE AND MOUSERIG TO FINISH DRILL	AS SOON AS THE INTERPORT OF THE INTERPOR	LOCATION WORK HAS IT IS PLANNED TO S BE CEMENTED FROM RILLED WHILE WAITI	SET 40' OF 13 TOP TO BOTTO ING ON A LARG	'ED, 3/8" M. ER
REGELL	A EU			
JAN 23	1001			
DIVISION OIL, GAS & I				
18. I hereby certify that the foregoing is		RETARY/TREASURER	DATE JANUA	RY 20 198
(This space for Federal or State office				
APPROVED BY	TITLE		DATE	

		THE PARTY OF THE P	Form approved.
Form 9-331 May 1963)	UNITED STATES	SUBMIT IN TRIPLICATES (Other instructions on re-	Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.
	DEPARTMENT OF THE INTE	RIOR verse side)	U-31805
	GEOLOGICAL SURVEY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
SUN (Do not use this	DRY NOTICES AND REPORTS form for proposals to drill or to deepen or pluse "APPLICATION FOR PERMIT—" for suc	S ON WELLS ug back to a different reservoir. th proposals.)	
•	UN ALLEMANTE		T. UNIT AGREEMENT NAME
OIL WE'L WELL WELL WALL OF OPERATOR	OTHER		8. FARM OR LEASE NAME
	RGY CORPORATION		FEDERAL
ADDRESS OF OPERATOR		TAND OTHE UTAU	9. WELL NO.
STE. 440, 5	57 WEST SOUTH TEMPLE, SA	any State requirements.	#1-15 10. FIELD AND POOL, OR WILDCAT
Tt sattace	UN.,		SALT WASH 11. SEC., T., R., M., OR BLE. AND
NW. SW. S	SEC. 15-23S-17E.	. T T N R	NW. SW. SEC. 15-23S-17
1857' FR.	. S-LINE AND 529' FR. W-	- LINE	SLM
14. PERMIT NO.	15. ELEVATIONS (Show whether	er DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
	4277' GRD;		
16.	Check Appropriate Box To Indicat	e Nature of Notice, Report, or C	Other Data
	NOTICE OF INTENTION TO:	#UBSEQ!	UENT REPORT OF:
TEST WATER SHUT-	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
PRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TREATMENT	ALTERING CLSING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ON ABANDONMENT
REPAIR WELL	CHANGE PLANS	(Other) INFORMATI	s of multiple completion on Weil
COMPL A SUN	WELL SERVICE RIG #7 HAS ETION WORK. THE RIG ST IDRY WILL BE PREPARED AS COMPLETED.		
	•		
			•
	•		
			•
		•	
			•
			•
18. I hereby certify the	at the foregoing is ffue and correct	SECRETARY/TREASURER	DATE <u>APR, 22, 198</u> 1
<u> </u>	ederal or State office use)		
	TITLE		DATE
APPROVED BY _ CONDITIONS OF	APPROVAL, IF ANY:		•

	2
Rev. 7/80 Pest.	UTAH STATE DEPARTMENT OF HEALTH Salt Wash
TC TM Nut Bact. Date Recd.:	ENVIRONMENTAL HEALTH
PC PM BOD Spec. Received By:	WATER ANALYSES 5 Sample No. 701
Storet No. Water Syst. No. Source No.	Sample County Current the 4 708
703 704	A1 Spring 14 Other 01 Beaver 16 Plute
Date Collected Time Collected Water Rights No. 707	03 Stream 18 Artesian 05 Daggett 20 Sangete 1. Culturary
yr. mo. dy. 24-hour clock Exact Description of sampling Point	
52-15 235 176 41-15 646	08 Storm 11 from 25 Utah 3. Industries 11 from 25 Wasston
	sower 13 Kane 28 Wayne 7 350
Supply Owned by Sample Type	1 FIELD TESTS
712 04 710	
Samplé Collected by	Temperature (*C)
SEND REPORT TO: Phone 53 35 77 /	Sp. Cond. AL mhos. 653 Cl Resid., mg/l
DIV. DII 945 MY1119 716	PH
42415 + 8 F , k & 8 / L 9 648	Sp. Gravity 608 Flow, GPM 604 Transparency, m 649 Flow, £fs 659
zip code	
	EWATER ANALYSIS BACT. LAB. No.
mg/i m ₉ /i T.O.C.	M.P.N. Total Coliforms/100ml
Tot. Sus. Solids 787 C.O.D.	777 M.P.N. Fecal Coliforms/100ml
NO ₂ +NO ₃ ,N 602 Cyanide	775 Fecal Strep C/100ml. M.F. Total Collforms/100ml. 654
T.K.N. 778 Phenolics 780 Sulfide	783 672 M.F. Fecal Coliforms/100ml.
780 Sulfide	Plate Count-Org./ml. 599
3 Filtered Unfiltered 4 CHE	MICAL ANALYSIS pH, units
me/I CATIONS mg/I ug/I (ppb) me/I	ANIONS mg/l TOTAL METALS ANALYSIS Bicerbonete 758 5 CATIONS mg/l ug/I(ppb)
Ammonia se N 722 Arsenic 723	Cerbon Dioxide 759 Aluminum 800
Berium 724	Cerbonete 760 Arsenic 660
80ron 725 727	Chloride 763 Barium 661
Quedmium 727 728	CO ₃ Solids Beryllium 801 Fluoride 765 Cadmium 4662
Chromium 729	Hydroxide 767 Chromium 663
Chromium, Hex. as Cr	Nitrate as N 605 Cobalt 804
	Nitrite as N 606 Copper 664 Phosphorus, Ortho as P 607 Gold 700
	Silics, dissolved as SiO ₂ 750 Iron 755
Megnesium 737	Sulfate
Manganese 738	Manganese 666
Potassium 742	TOTAL ANIONS Molybdenum 802
Solonium 743	GRAND TOTALNickel 667
Silver 1744	8elenium 668 Phosphorus 785 Silver 669
	1 Alk. as CaCO ₃ 752 Uranium, 601
т. н	dns. as CaCO ₃ 754 Venedium 803
	actant as MBAS 773 Zinc 670
Sp. Cond. Aumhos/cm. 762 Sp.	Gravity 608
TDS • 180°C [[(4 4 3 0 786	
7 RADIOLOGICS	INTERPRETATION OF ANALYSES: Based on State Standards, this sample was:
Alpha, gross 621 89 Sr 63	ا کے قبر Remarks:
Beta, gross 623 131 63	B.O.D. ₅
Tritium, ³ H 625 134 _{Cs} 63	7 9 Tot. Sus. Solids
228 _{Radium} 629	M.P.N. Total Coliform.
90 Sr	M.P.N. Fecal Coliform.
Analyses Approved By: Real Date: 800505	ENVIRONMENTAL HEALTH

INSTRUCTIONS FOR COLLECTING WASTEWATER SAMPLES

		FOR LABORATORY USE ONLY													
		Date R	ec'd			RESU	LTS								
1.	Select point where sample will be representative and where foreign		volume	Presur	ptive	Cor			GLB	,			at 44	.5℃	
	material will not be brushed into supply while sample is taken.	Ī	ml.	24	48	24	48	24	48	Т	24	24	T		
2.	Remove cap from bottle carefully.		10.0	5	5		/		/	5		/	5		
3.	Collect sample by submerging the bottle and pushing forward with a slow, even motion so that the sample will be collected in a single stroke. If the bottle is more than 2/3 full, the excess should be		1.0	5	/ 5	/		/	/	5		/	5		
	removed before replacing the cap. This can best be done by flipping the water from the bottle.		10-1	5	5	/				5		/	5		
4.	Replace cap.		10 -2	5	/ 5		/			5			5		
	Treplace cop.	$ \square $	10 -3	5	5	/	/	/	/	/5		/	5		
NOT	E: Bottles contain a liquid or white powder (sodium thiosulfate). Do Not Rinse,		10-4	5	/ 5				/	5			5		
DO N	OT TOUCH inside of bottle cap or top of bottle neck.		10-5	5	5			/	/	/5		/	5		
			10-6	5	5				/	/5			5		
			м	P N C	olifori	ms pei	r 100	ml.	М	PΝ	Fecal	Colifa	rms pe	er 100) ml.
			_						_						

<u></u>		.
	SUBMIT IN TRIPLICATE: (Other instructions on re	5. LEASE DESIGNATION AND SERIAL NO.
	ON 14/51 / C	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
		7. UNIT AGREEMENT NAME
THER INFORMATION		HORSESHOE CANYON
		8. FARM OR LEASE NAME FEDERAL
CORPORATION		9. WELL NO.
ST SOUTH TEMPLE, SAL cation clearly and in accordance with an	T LAKE CITY UT.	#2-20 10. FIELD AND POOL, OR WILDCAT
00 060 177		WILDCAT 11. SEC., T., R., M., OR BLK, AND
	line)	SE.SE. SEC. 20-26-17
15. ELEVATIONS (Show whether t	DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE
5005' GRD;	5020' K.B.	
ck Appropriate Box To Indicate	Nature of Notice, Report, or C	Other Data
F INTENTION TO:		UENT REPORT OF:
PULL OR ALTER CARING	WATER SUSTEMBLE	REPAIRING WELL
MULTIPLE COMPLETE		ALTERING CASING
ABANDON®	SHOOTING OR ACIDIZING	ABANDONMENT*
CHANGE FLANS	(Other) INFORMAT	
	Completion or Recomp	of multiple completion on Well letion Report and Log form.)
ADON ENERGY CORPORAT	ION HAS CHANGED IT	
		NV/s:n
	ED 200	
	APR 2	2 1981
	ARTMENT OF THE INTER GEOLOGICAL SURVEY NOTICES AND REPORTS I proposals to drill or to deepen or plus PPLICATION FOR PERMIT—" for such FRER INFORMATION CORPORATION ST SOUTH TEMPLE, SAI ration clearly and in accordance with an 20-26S-17E. 1ine and 742' FR. S- 15. ELEVATIONS (Show whether is 5005' GRD; ck Appropriate Box To Indicate of INTENTION TO: PCLL OR ALTER CARING MULTIPLE COMPLETE ABANDON' CHANGE PLANS FED OPERATIONS (Clearly state all pertine directionally drilled, give subsurface loc	ARTMENT OF THE INTERIOR (Other Instructions on regeonal content of the interior of research of the interior of

DATE _

TITLE _

(This space for Federal or State office use)

Conservation Division 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Megadon Energy Corporation 57 West South Temple, Suite 440 Salt Lake City, Utah 84101 June 26, 1981

JUN 2

DIVISION OF OIL, GAS & MINING

RE: Well Federal #1-15

NW SW Section 15, T. 23, R. 17E

Grand County, Utah Lease U-31805

Gentlemen:

A recent field inspection disclosed that apparently produced salt water is being disposed of by dumping it on and along roads in the vicinity of the referenced well. In addition to wet road surfaces, it is further evidenced by white salt build-up along the roads.

In the event that your operations are responsible for this condition you are to cease and desist this practice immediately.

Should you ever have a produced water disposal problem on a federal lease you should submit a request to this office under NTL-2B for consideration (copy attached).

If you have any questions please feel free to contact this office.

Sincerely,

(ORIG. SGD.) W. P. MARTENS

E. W. Guynn District Oil & Gas Supervisor

cc: (Utah State, 0&G BLM, Moab MEGADON ENERGY CORP.
SALT WASH #1-15 WELL
SEC. 15-23S-17E.
GRAND COUNTY, UTAH
CONTINUED COMPLETION HISTORY

- May 10: Sunday didn't work,
- May 11: Came out of hole with tubing and packer and checked each joint of tubing for undersize (overweight). Pulled out 38 jts of heavy (5,3#) tubing and replaced with normal 4.70# tubing. Found packer in bad shape so had to send it to town for service. Shut down at 3 P.M. and sent crew home.
- May 12: Went in hole with tubing and packer. Set packer at 8482' K.B. and rigged up to swab. Swabbed well into frac tank. Swabbed out 16 bbl of load water and swabbed tubing dry. Well making some gas and oil with each swab.
- May 13: Tubing pressure 100#. Packer set at 8482! (Top perf at . 8500!); perfs at 8500-44!, and 8555-80!. Swabbed all day. Swabbed down in first 4 runs and then made 1 run per hr. and recovered about ½ to 1 bbl fluid each time (oil, mud, and water). Flowing gas continuously. Recovered about 15 bbl fluid for the day. Plan to acidize in morning. Shut well in at 1800 hrs.
- May 14: 0800 tubing pressure 50#. Opened well and it kicked off and flowed about 2 bbl of oil into tanks, Made 1 run and recovered 2 bbl of oil, Gas flow is strong and continuous. Next 2 swabs pulled 2 bbl oil each. Rigged down swab and prepared to acidize well, 1200 hrs; Dowell arrived and rigged up. Waited 45 min, on water truck, 1350 hrs; Pumped in 1000 gal 24 bbls of Hcl acid (28%) with 65 ball sealers. Displaced with 35 bbl salt water acid. Formation broke at 2800# and acid pumped in at 4 bbl/min rate at 2800#. Good ball action (4 separate break downs). When balls hit, pressure increased to 4800# and then broke back to 2800#. Well went on vacuum immediately when pumps were stopped,

1430 hrs: Rigged up swab and began swabbing. Pulled 2 swabs (10 bbl fluid - acid water) and well kicked off and began to flow. Put on choke yalve and flowed well thru 1/8" choke. Flowed 48 bbl fluid in 30 min with tubing pressure at 150#. Gauged tank every ½ hr. as follows: (Opened on ½" choke)

Time	Tank Gauge	Bbls	Diff
15:30	21211	43	
16;00	41011	80	37
16:30	7 1 2 11	143	63
17;00	91011	180	37
17;30	11'0"	220	40
18;00	131011	260	40

Shut well in and sent crew home. Flowing pressure was 100# to 150#.

MEGADON ENERGY CORP. SALT WASH #1-15 WELL SEC. 15-23S-17E. CONTINUED COMPLETION HISTORY

May 15: 0800 hrs: Tubing pressure 1400#. (Tank leaked some over night.) Opened well on ½" choke.

Time	Tank Gauge	Bbls	Diff
0830	11'4"	225	55
0900	14 10 11	280	ວວ
0930	16'0"	320	40
1000	18'0"	360	40
1030	201011	400	40

Flowing tubing pressure was 150#, 10:30 hrs:Shut well in, Killed well and came out of hole with packer. Install seating hipple on bottom and started back in hole with tubing. Ran 15 stds. 1800 hrs: Shut well in.

May 16: 0800 hrs: Tubing pressure 500#. Killed well and ran tubing in to 8482'. Removed BOP and installed well head and master valve. Rigged up to swab well in. Pulled 3 swabs and well kicked off. Gauged as follows: (100 choke 1.66 2/3 bbl/in.)

Time	ŗ	Tank Gauge		Bbls	· <u>I</u>	iff			
1330	-	1'0"		20		75			
1430	•	41911		95		19			
1500	• '	51811		114					
1530		61711		132		18			
1600		714"		147		15			
1630	•	81211		163		16			•
1700		91111		182		19			
	hrs:	Shut well	in,	Crew	went	home	at	1400	hrs,

- May 17: Sunday Crew didn't work.
- May 18: Casing pressure 850#; tubing pressure 1250#. Drained some of the water off the tanks. Crew rigged down and moved rig. Rig left at 1100 hrs. Didn't flow well.
- May 21: Rigged up temporary line to tanks. Installed choke valve on well head. Drained rest of water off tanks. Opened well on ½" choke to flow to rt. tank. Tubing pressure 1700#; Casing pressure 1200#.

 Time
 Tank Gauge
 Bbls
 Diff

 1346
 10'11"
 218

 Flowing tubing pressure
 1425#

 1446
 12'1"
 242
 24

 Flowing tubing pressure
 1560#

Casing pressure 1200#
Pressure climbing rapidly and flow rate dropping. Found frac-ball in choke valve. Put well back on flow thru ‡" choke at 1722 hrs.

1722 12' 1" 242 1822 14' 8" 294 52 Tubing pressure 800# MEGADON ENERGY CORP. SALT WASH #1-15 WELL SEC. 15-23S-17E. CONTINED COMPLETION HISTORY

May 21:

1922 15' 3" 305 11 (Choke valve freezing off due to gas flow.) Tubing pressure is 600#.

May 22:

Tubing pressure 1360#; Casing pressure 1250#.

Opened well on 11 choke at 1000 hrs.

Time	Tank Gauge	T.P.	Bbls	Diff
1000	15'3"	1360#	305	
1100	17'5"	800#	348	43

1100 hrs: Shut well in to change out valves and revamp flow line. Switched to left tank and opened well on $\frac{1}{4}$ " choke.

1541 7'3" 500# 145 1850 12'7" 300# 252 107

Flow rate of well seems to be fairly steady at about 35 bbls of oil per hr. on a $\frac{1}{2}$ inch choke and holding a flow pressure of about 300#.

Well shut-in pending installation of tanks and signing of the Division Order.

W. Don Quigley

Megadon Energy's Salt Wash #1-15

Sec. 15, T23S, R17E, Grand County, Utah

riday 4-24-81

Colorado Energy delivered 284 jts of 2 3/8" 4.7#, N-80 used Hydril tubing to location (Vendors tally = 8698'). J & W set rig anchors and levelled the location. Waited on location until 1800 hrs. - Utah Well Service rig did not show up.

aturday 4-25-81 900 to 1230 hrs.

Utah Well Service rig finally on location. Had difficulty in getting lined up over the hole; got rig stuck in soft sand. J & W cut off and levelled the 5 ½" casing. Raised mast, installed guy lines, spotted flat tank and pump, hooked up 10" X 6" - 3000# tubing head, hooked up 6" - 3000# double gate BOP.

230 to 1830 hrs.

Picked up 4½ DOTCO convex-bottomed mill and cross-over sub; total tools 3.84′. Started tallying, picking up, and rabbiting tubing in singles. Ran 232 jts. of tubing; tagged DV tool or something with 19.40′ in on jt. 233. Tag calculated at 7110.18′ K.B. Laid down jt. 233. Pulled up one double stand and left well short in for weekend.

Note: Had 100 lbs brine drlivered to rig flat tank.

onday 4-27-81 800 to 1830 hrs. Rigged up power swivel and pump. Established reverse circulation.

Drilled on DV tool from 7110' to 7120' K.B., then broke through, apparently pushing some rubber and debris on down hole - Picked up joint # 234 and circulated on down to 7152' K.B. Circulated hole clean, pulled up one double stand and shut down for the night. Utah Well Service power swivel appears to be lacking in power; stalls out.

uesday 4-28-81 800 to 1830 hrs. Picking up tubing in singles and circulating down the casing. With 260 jt. tubing in hole (7942' K.B.), pressure tested casing to 1500 psig using rig pump. Pressure bled off to 1200 psig in 6 minutes due to slight leak in the TIW valve. Casing considered O.K.

130 to 1400 hrs.

Resumed picking up tubing and circulating down the hole. With 17' in on jt. #281, had a tag at 8563' K.B. (13' deeper than reported depth).

400 to 1500 hrs.

Milled on casing float for 1 hour. Mill tending to plug; could only circulate direct (down tubing). No cuttings to surface. Decided to POH with mill in order to pick up 4 ½" bit and casing scraper. Rig pump not working properly Rigged down power swivel and started out of hole measuring

500 to 1800 hrs.

Rigged down power swivel and started out of hole measuring tubing in double stands. Pulled 60 stands.

ednesday 4-29-81 800 to 0930 hrs.

Completed pulling out of hole measuring out in stands.

140 stands (280 jts) = 8529.62

280 jts. measured in singles = 8530.94. Good check, but will accept the doubles measurement which is 1.32' less
This corrects the tag on the float to 8561.46' K.B. Laid down well-worn 4 ½ " mill. Dropped broken up Coca Cola bottle down hole to help drill up rubber plugs. Picked up new Varel 4½" O.D. bit #29388, a Baker casing scraper plus 2-cross-

over subs necessary to make up the assembly; total tools equals 7.92'.

1230 to 1830 hrs.

Ran back in hole with new assembly. Started drilling on casing float using reverse circulation. Had a lot of black rubber in the initial returns for about 1½ of penetration. Then started getting some metal fragments in the returns; definitely drilling on the float. The power swivel (operated off of rig hydraulic system appears lacking in power; it stalled out.) accumulated considerable sludge and debris in the rig flat tank. Drained and cleaned tank and refilled tank with fresh brine water.

The rig pump is not putting out as it should; I believe some of our cuttings are falling back downhole due to lack of velocity.

Drilled 8561' to 8563', still on casing float. Penetration stopped. Power swivel getting very hot and stalling out. Rig circulating pump really vibrating and clanking; not putting out enough fluid or pressure.

Thursday 4-30-81)800 to 0900 hrs.

Moved in B Co. power swivel to replace Utah Well Service power swivel. Worked on rig circulating pump; this pump is still not operating properly. A replacement has been arranged for through Utah Well Service.

)900 to 1100 hrs.

Drilled on float with 2000-3000 lbs weight and 20 RPM. The performance of new power swivel made a very positive difference. Drilled through float collar as of 1100 hrs. and circulated and rotated on down to 8579' K.B. per tubing measurements.

1.100 to 1200 hrs.

Rotated and circulated on down to 8600'K.B. per tubing measurements. Calling top of float @ 8562' per tubing tally plus 38' float to shoe equals 8600' K.B. Returned samples indicated good hard cement from 8565' to 8600' K.B. where pressure and increased torque indicated we were on top of the casing shoe.

1200 to 1300 hrs.

Circulated hole for one hour to make certain it was clean. Rig pump deteriorated further in performance — just about cratered. Welex on location, waiting to run CBL and perforate Laid down power swivel. POH, laying down 2 jts. of tubing which were moderately bent near the top from breakout stress—stood back 138 double stands. Filled hole up with brine in preparation for running Welex CBL log.

.300 to 1530 hrs.

Welex running CBL log.

.530 to 2100 hrs.

Utah Well Service trucked in a replacement pump and flat tank unit. Changed out units and hauled original pump out for evaluation and repair.

100 hrs.

Completed CBL log from 8590' TD up to 5000'.

'riday 5-1-81 0800

Welex rigged up to perforate the 5½" casing. Loaded 4" O.D. casing gun with 25 22 gram SSB-2 jet charges. (reported ½" "diameter casing hole). Checked PBTD and 8 casing collars. Only a 5 ft. segment of the gun fired; perforated one shot per foot from 8580' up to 8575' K.B.

Friday (cont'd) 1300 hrs.

1500 hrs.

1600 to 1700 hrs.

1700 to 1730 hrs. 1730 to 2000 hrs.

Welex made repairs and made second run in hole with 4" O.D. casing gun loaded with 20 jet shots as defined. Again checked PBTD and 6 casing collars; perforated casing 8575' up to 8555' with 20 jet shots, i.e. 1 shot per foot.

Welex made 3rd run in hole with casing gun loaded with 24 jet shots as defined. Checked PBTD and 6 casing collars. Perforated casing 8544' up to 8520' with 1 shot per foot. Welex made 4th run in hole with casing gun loaded with 20 jet shots as defined. Checked PBTD, float collar @ 8550' and 5 casing collars. Perforated casing 8520' to 8500' K.B. with 1 shot per foot.

RECAP- Perforated 8580' to 8555 with 1 shot per foot 8544' to 8500 with 1 shot per foot

POH and rigged down Welex.

Picked up Baker Model EA Retrievamatic packer - Installed a 1 25/32"seating nipple just above the packer. Ran packer in hole on 2 3/8" Hydril tubing.

Had planned to set packer with 277 jts. @ 8457' K.B. but 4.50" O.D. packer (45A2 for 20 to 23#) would not go through DV tool @ 7110'K.B./tubing measurements. (116 stands plus a 33.64' single = 7099.20)

Attemped unsuccessfully to rotate packer through DV tool-Did not get very rough but it gave no indication of going through (even though a 4.50" O.D. mill, a 4.50" O.D. bit and a casing scraper had been through the DV tool -) Ultimately set packer at 7105'K.B. Pressured up back side to 1000 psig; held O.K. for 5 minutes.

aturday 5-2-81 800 to 1030 hrs.

.030 to 1130 hrs.

130 to 1730 hrs.

Laid line to 400 bbl. tank and rigged up to swab below packer at 7105'. Unable to get swab down below 200'. Mandrel would go through without a swab cup but would not go through when fitted with a sand-type swab cup.

Ultimately released packer and pulled out 4 double stands. Reset packer at 6874'.

Attempting to work swab down through tubing. Recovering a lot of scale from inside the used Hydril tubing. Borrowed a paraffin scraper and worked it down through the tubing. This seemed to help and it was possible to make some swab runs down to about 4800' from surface. Recovered brine water and scale. Estimate total fluid recovery for day at 12 bbls brine water.

onday 5-4-81 800 to 1800 hrs. Found 25 psig on tubing; zero pressure on casing (packer set) - Initial run with swab found fluid 4000' from surface. Pulled swab from in 5000' Recovered green oil and condensate. Swabbing to rig flat tank. Well kicked off after second pull with swab. Rigged up to swab or flow into Bi Co. 400 bbl. rental tank. Made a total of 9 pulls with the swab; the last 8 pulls were from the seating nipple at 6870'. Recovered a gauged total of 18 bbls. fluid. Estimate 10% of the fluid recovered was oil. Note there was about 1600' of brine water (about 40 bbls.) below the packer to the top of the new perfs-Still having difficulty getting swab down through this tubing.

Tuesday 5-5-81 0800 to 0930

Found no pressure on the tubing; suspect TIW valve leaked. When TIW valve was opened fully, there was a significant blow of gas, but no fluid.

Made one run with swab. Found fluid level 2900' from surface. Pulled swab from 3800'; recovered less than 1 bbl of fluid (estimate 10% green oil; fluid considerably emulsified). Rigged down swab and lubricator. Equalized and unseated packer. POH.

0930 to 1130 hrs.

Laid down Baker packer. Some marks on the tapered slope at the botton of lowest drag springs. Rubbers and packer looked in excellent condition.

1130 to 1315hrs.

Picked up used $4\frac{1}{2}$ " O.D. bit #29388 and Baker casing scraper. Total tools = 7.05'. Ran in hole with 116 double stands plus 1 single = 7101.06' K.B.

1315 to 1515 hrs.

Slight indication on weight indicator of a tight spot in the casing at 7110' K.B. Rigged up BiCo power swivel and rig pump. Established direct circulation after pumping 16 bbls. of brine. Initial returns contained considerable green oil. Rotated and reciprocated and circulated through the DV tool until there was no indication of weight or of torque build up. Then, as a precaution, picked up another single and circulated on down to 7156' K.B. Rigged down power swivel. POH with bit and scraper; all looked in excellent condition.

1530 to 1800 hrs.

Wednesday 5-6-81 0800 to 1300 hrs.

Picked up new Baker Model 'E' Retrievamatic packer (dressed for left hand set so we can rotate through DV tool if it should prove necessary). Installed a 1 25/32"I.D. seating nipple just above the packer. Ran packer in hole on 116 double stands of 2 3/8" Hydril tubing plus a single (total tubing = 7101.06'). Tagged up on DV tool at 7110' - Stacked out entire weight of tubing; would not pass through - Worked with it for a considerable time. Tried to rotate through - Dangerous. Got back all the right hand torque we put in - Reluctantly decided not to get too rough in trying to get packer through.

1300 to 1600 hrs.

POH and laid down packer. Ordered out a special mill dressed to 4.62" diam (drift diameter of 20# 5½" casing is 4.653"). Shut down to wait on mill delivery 0700 hrs. on next day (5-7-81).

Thursday 5-7-81 0700 to 0930

BiCo power swivel operator delivered special 4.62' O.D. mill made up by Stewart Machine Shop in Vernal. Picked up mill Baker casing scraper and crossover sub; total tools = 6.66'. Start in hole to attempt to mill out DV tool and float collar to pass a 4.50" O.D. packer. Ran in hole on 116 double stands of 2 3/8 Hydril tubing plus a single (total tubing 7101.06'). Tagged up on DV tool at 7110'; DV tool took full weight of the string with the 4.62" diameter mill on botton. Picked up power swivel and stripping head and hooked up rig pump for direct circulation - obtained circulation with less than 1 bbl. : pumped; apparently the open perfs. are not taking fluid. Rotated, reciprocated and circulated through the DV tool. Mill found considerable to cut on; had up to 800 ft. of torque on the power swivel. Circulated and rotated down an extra single (total of 117 double stands in the hole) to be certain no obstruction

0930 to 1130 hrs.

place below the DV tool.

Thursday (cont!)
1130 to 1200 hrs.

Laid down power swivel. Ran in hole. There was no indication of any tightness at the float collar at 8562 K.B. per tubing tally - Ran on down hole; tagged PBTD with 22' in on jt. #282—i.e. at 8600' K.B. per tubing tally.

1200 to 1315 hrs.

Changed over to reverse circulation and circulated hole for one hour and 15 minutes -- just off PBTD. Recovered a few metal fragments and a few pieces of rubber.

1315 to 1530 hrs. 1530 to 1800 hrs. fragments and a few pieces of rubber.

POH. Laid down mill and casing scraper.

Picked up Baker Model "E" Retrievamatic packer (dressed for left

1800 hrs.

hand set). Installed a 125/32" I.D. seating nipple just above the packer. Ran down hole - went through DV tool at 7110'K.B. with only slightest bobble on the weight indicator. Ran 139 double stands (8468.69'). Set packer at 8486'K.B.

Ran 139 double stands (8468.69'). Set packer at 8486'K.B. with 10,000 lbs. weight.

Friday 5-8-81 0800 hrs.

A difficult day. Trying to swab test the perfs. below the packer at 8486' - Having extreme difficulty getting the swab down the tubing. Ultimately made 10 pulls and recovered 17 bbls. brine water with a small amount of gas. Finally worked down with swab to a depth of 6500; swabbed fluid down from surface to 6000; Made a trip by back roads to the 10 mile unit to borrow a paraffin scraper.

Saturday 5-9-81 0800 hrs.

Released rig crew for 2 day weekend. Arranged for Jay Wireline Service to be at location at 0800 hours to attempt to broach the tubing run in this hole. Rigged up. Checked shut—in tubing pressure at 190 psig. Unable to get a 1.906 broach in the top joint of tubing in the well. Ultimately determined that the top joint of tubing was 2 3/8" 5.3 lb C.S. Hydril with an I.D. of only 1.890" whereas the tubing joints on the ground were 2 3/8" 4.7 lb. C.S. Hydril with an I.D. of 1.945. There is reason to believe that there are several joints of the heavier tubing in the string.

Helpleason,
P.E.

UNITED STATES SUBMIT IN DUPLICATE .

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

(See other instructions on reverse side)

Form a	pproved.	
Budget	Bureau No.	42-R355.5

ide)	5.	LEASE	DESIGNATION	AND	SERIAL	1

ט	-3	18	05	

WELL CO	MPLETIC	ON OI	R RECON	MPLE 1	TION R	EPORT	AND	LOC	5 *	6. IF INDIAN	, ALLO	TTEE OR TRIBE NAME
a. TYPE OF WEL		OIL X				Other				7. UNIT AGE	eem en 1	NAME
b. TYPE OF COM	PLETION:	W-200 C	. ""		· · · · · · · · · · · · · · · · · · ·	Juliu				SALT	WAS	H UNIT
WEW XX	WORK OVER	DEEP-	PLUG E	DIE RE:	FF. SVR. (Other				S. FARM OR		
NAME OF OPERAT				· · · · · · · · · · · · · · · · · · ·			-11	m:		FEDER	RAL	
MEGADON I	ENERGY	CORP	וחדשמאח	J			7117	<u>CIII</u> 3	\	9. WELL NO.		
ADDRESS OF OPER		CORE	OKMITOL	<u>. </u>		(C)3	7.70			#1-15	5	
57 WEST	SOUTH	TEMPL	E. SALT	r Lak	E A	UTA	Н	- 4		10. FIELD A	D P001	L, OR WILDCAT
. LOCATION OF WEL	L (Report l	location cle	arly and in a	ccordanc	se with					SALT		
At surface NV	w. sw.	SECT	ION 15-	-23s-	-17E	šlm ///	Ų J			11. SEC., T., OR AREA	R., M.,	OR BLOCK AND SURVEY
At top prod. into	erval report	ted below	1857 ' 1	ra. s	S-LINE	- ん-529) ' H' H	·~#V-	LINI	NW.SW.	. SE	C. 15-23S-1
						~ 1	VISIO1	MINIU N.OEN-	1Q	SLM.		
At total depth					nnarm No	יט	245	MININ MININ		12. COUNTY	OB	13. STATE
	•			1	ERMIT NO.	- In Olly	1 - 1	.so.bb		PARISH	O.	
	1 10		ED 17. DAT		019-36	7/5-2				GRAND	1 19. 1	UTAH
, DATE SPUDDED	}				(wenah in	p, ou.,						
2-8-81	4-8-		5-2:		9 in Milita	IPLE COMPL		23. INTE		1295 K		CABLE TOOLS
. TOTAL DEPTH, MD . 8585 ¹	= TVD 2.				HOW MA	NA.	"		LED BY	ROTAR	1	
. PRODUCING INTER	VAL(S) OF	_	562'	ВОТТОМ	I. NAME (M	D AND TVD)	•		→	ROTAR		5. WAS DIRECTIONAL
8500-44'				, DOLLON	-,							SURVEY MADE
8550-80'			MITS	SISSI	IPPIAN	!						
TYPE ELECTRIC			•								27. W	AS WELL CORED
DUAL LAT			MAPREN	STTA	CNI							NO
DOME BATT						ort all string	s set in	well)				
CASING SIZE	WEIGHT	r, lb./ft.	DEPTH SE			E SIZE	1		ENTING	RECORD		AMOUNT PULLED
9 5/8"	36.	00#	1846	' KB	12	1/4 !!	650) sks	re	g w/3%	CaCl	
5 3 "	17	& 20#	8587		8	3/4"	1150) sks	su	per str	engt	h
	_				_		_					
	_				_							
),		LIN	ER RECORD					30.		TUBING REC	ORD	
SIZE	TOP (MD)) 807	TOM (MD)	SACKS	CEMENT*	SCREEN ()	(D)	SIZE		DEPTH SET (1	(D)	PACKER SET (MD)
								2 3/	8 "	8482		NONE
. PERFORATION RE	CORD (Inter	val, size ai	id number)			82.	ACI	D, SHOT	FRAC	TURE, CEMEN	T SQU	EEZE, ETC.
						DEPTH IN	TERVAL	(MD)	A:	MOUNT AND KI	ND OF	MATERIAL USED
8500-44'	w/l s	sh/ft.				8500-	858	•	100	0 gal o	£ 28	R%_HcL
8550-80												
	•	·										
									<u> </u>			
3.* ATE FIRST PRODUCT	NOV I	DBODIIOTI	N METHOD (Floreina		OUCTION	and tu	ne of nur	no)	1 WALL	STATE	s (Producing or
			,		900 VIJV, p.			po 0, pu.	ν.,	sh.	ut-in)	JCING
5-14-81	HOURS TE		WING	PROI	D'N. FOR	OIL-BBL.		GAS-M	CF.	WATER-BE		GAS-OIL BATIO
	1		Jan		T PERIOD	75	1	15-2		75		50:1
5-22-81 ow. TUBING PRESS.	CASING P	RESSURE	CALCULATED	1 011-	—BBL.	<u> </u>	-MCF.	10-4	WATER		OIL	GRAVITY-API (CORR.)
500#	150		24-HOUR RAT		200	F	00	1	20		1	5 2
DISPOSITION OF)	200	1 +				TEST WITN	1	
VENTED D												QUIGLEY
5. LIST OF ATTACE		JUN E	(20	- ,							, , ,	
DRILLING		DRY. C	OMPLET	ION	HISTOF	RY, SAI	MPLE	LOG				
6. I hereby certify									ed fron	all available	record	8
	· · · · · · · · · · · · ·	J J										
SIGNED					ritle _F	PRESIDI	ENT			DAT	ng Ju	JNE 30, 198



United States Department of the Interior

GEOLOGICAL SURVEY

Conservation Division
2000 Administration Building
1745 West 1700 South

Salt Lake City, Utah 84104

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Megadon Energy Corporation W. Don Quigley, President 57 West South Temple, Suite 440 Salt Lake City, Utah 84101 July 23, 1981

Megadon Energy

Re:

Disposal of water produced from Lease U-31805, Well No. 1-15 NW SW Section 15, T.23S, R.17E Salt Wash Field Grand County, Utah

Dear Mr. Quigley:

This letter is to confirm our telecon on July 22, 1981, requesting that you cease and desist immediately disposing of salt water on road surfaces. Your concurrence was appreciated.

Your permanent water disposal method must be approved by this office and in operation no later than August 14, 1981. Failure to comply with NTL-2B by this date could result in a shut-in order being issued for this well.

If you have any questions, please advise this office.

Sincerely,

E. W. Guynn

District Oil and Gas Supervisor

cc: BLM, Moab, UT

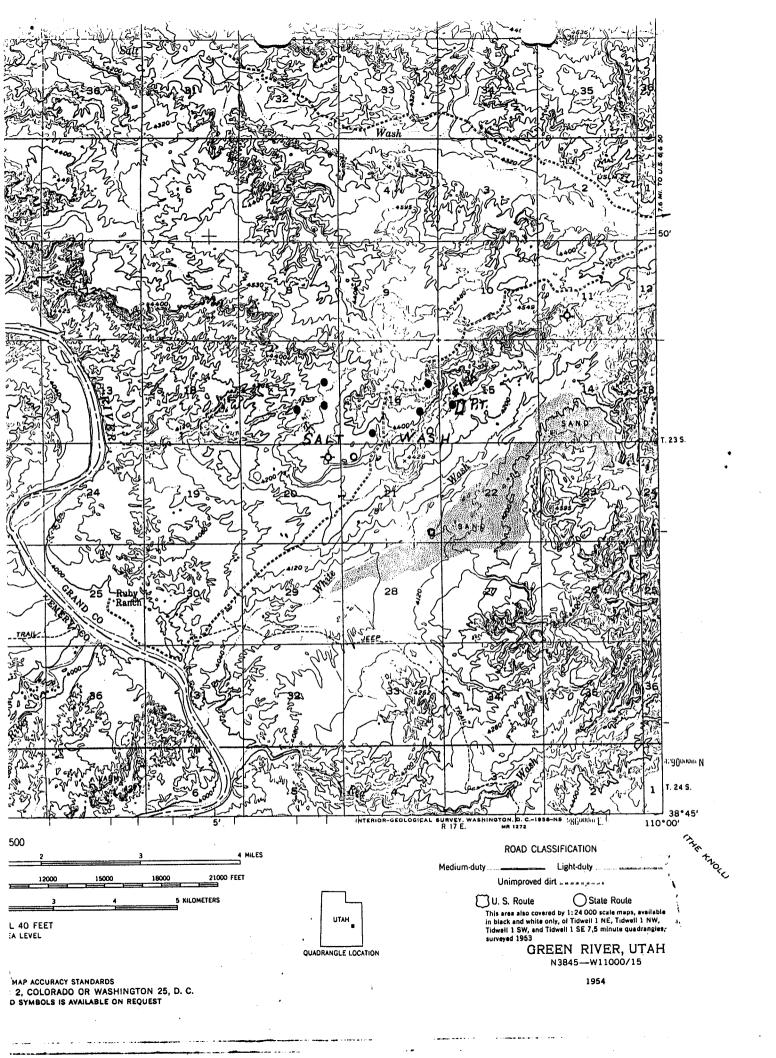
Utah State Oil & Gas '

Grand County Commissioners

Grand County, UT

125 E. Center

Moab, UT 84532





57 West South Temple • Salt Lake City, Utah 84101 • (801) 359-3575

April 20, 1982

Mr. Gilbert L. Hunt Dept. of Natural Resources Oil, Gas, & Mining 4241 State Office Building Salt Lake City, Utah 8411

23517E 15

Re: Salt Wash #1-15 Well Grand County, Utah

Dear Mr. Hunt:

You letter of April 14, 1982 regarding the above captioned well indicated that brine water was observed being discharged into an unlined pond at the well site.

I do not believe that this has been done because I have strictly forbid the pumpers to discharge any salt water on the location. The water has been trucked out to various drilling wells at a considerable cost to us. At present, we have choked the well down so that only a few barrels of salt water are being produced daily. This water is stored in one of the storage tanks until full and then trucked out. I do not believe that any infractions of regulations have occurred. However, I will admonish my pumpers again to make absolutely certain that no disposal is being made into the pits.

I am requesting the Health Department to send specks for the construction of a proper evaporation pit. Since we are getting absolutely no where with the disposal well, we will have to resort to other methods.

Sincerely yours,

W. Don Quigley

President

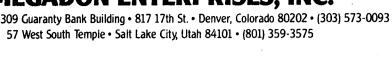
WDQ:sb

DECEIVED

APR 2 2 1982

DIVISION OF OIL, GAS & MINING





April 26, 1982

DECETYED APR 29 1982

DIVISION OF OIL, GAS & MINING

Mr. Fred C. Pehrson
Dept. of Health
Bureau of Water Pollution
150 West North Temple
Salt Lake City, Utah 84103

Re: Water Production at Salt Wash #1-15

Dear Mr. Pehrson:

As requested by your "Wastewater Disposal Regulations" dated January 20, 1982; we wish to notify you that Megadon Enterprises Inc. is producing approximately 180 bbls of water along with approximately 40 bbls of oil per day from our Salt Wash #1-15 well located in Section 15, T 23S, R 17E, Grand County, Utah. This water, after separation from the oil, is presently stored in a tank and then hauled by truck to wells that are presently being drilled by other companies in the Green River - Moab area to be used as make-up water for drilling fluids or to a lined pit on private property in Moab. The water is being hauled by Dee Ferguson (R. W. Jones Trucking) or by Black Hills Trucking Co. Approximately one load per day is being hauled by the truckers.

Monthly reports in the past have been inconsistant due to adjustments made on the choke size at the well. Several different settings have been tried to ascertain the size at which maximum oil production with minimum water production occurred.

Sincerely yours,

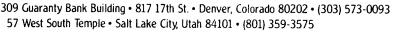
W. Don Quigley

cc: Minerals Management Service

Oil & Gas Division

Dept. of Natural Resources





May 17, 1982

Mr. Fred Pehrson
Bureau of Water Pollution Control
150 West North Temple
Salt Lake City, Utah 84103

Re: Permit Application for Water Disposal Pond

Dear Sir:

V

Megadon Enterprises Inc. is hereby making an application for a permit to construct a surface disposal pond for the purpose of disposal and evaporation of water produced along with oil from the company's wells in the Salt Wash Field in Grand County, Utah. The company is presently producing only one well at Salt Wash (the #1-15 well) due to the quantity of water produced with the oil. The water has been hauled away by truck, at considerable expense, to other wells being drilled or treated in the general area (sometimes as far as 100 miles away) and to other disposal systems. The water is being used for make-up water for drilling purposes or for killing and treating other wells undergoing completion or remedial work. This use of the water can still continue after the disposal pit is constructed and can be used to augment the evaporation process.

General Requirements

1. The proposed pit will be approximately 300 ft. long by 100 ft. wide and at least 10 ft. deep allowing a freeboard of two feet above an 8-ft. depth of water. A pond this size would accommodate approximately 5360 bbls of water per ft. of depth or about 450 bbls per inch. A portion of a topographic map showing the location of the pit next to the Salt Wash #1-15 well in the NW. SW. of Section 15, T 23S, R 17E, is attached. The pit site is located on gently sloping ground at the base of a cliff. The land slopes gently to the east toward a wash which is about ½ mile from the location. The surface soil is mostly red shale and sand.

Drainage facilities will be constructed around the pit to prevent any surface waters from entering the pond.

2. The present production amounts to about 300 bbls of water per day which has to be removed. This amounts to about 9000 bbls per month or about 20 inches of water depth in the pit. The produced water is saline containing approximately 172,000 ppm salt; a copy of the water analysis is attached hereto.

Monitoring Program

1. Several massive sands which could act as fresh water aquifers are present in the general area. These include the Entrada, Navajo, and Wingate formations. The upper sand, the Entrada, is approximately 450 feet below the surface at the pond site. The Entrada is exposed on the east side of the wash about 1/2 mile away. The dip is about 30 to the northeast. The near surface sediments are red shales and siltstones belonging to the lower Morrison, Summerville, and Curtis formations which do not normally contain aquifers. There could be fractures which would communicate with the Entrada sand, but there would be no way to determine this or to place a monitoring well on the fracture. The conditions present preclude the need for a monitoring well or wells. Careful monitoring of the pond should detect any leaks that might develop. It has been the experience of the Texas Gulf people that there is little problem with leaks when the ponds are constructed as outlined above and when a layer (6" to 9" thick) of sediments is allowed to build up on the bottom.

If there are any additional requirements or information needed to process this application, please let us know. Your early consideration of the application would be greatly appreciated.

Sincerely yours.

W. Dow Guigley W. Don Quigley

cc: Minerals Management Services Salt Lake City, Utah

> Oil & Gas Division Salt Lake City, Utah

Minoco Los Angeles, Calif.

N P Energy Corp. Houston, Tx.

Cumo Resources Ltd. Vancouver, B.C.

Getty Oil Co. Denver, Co.

Robert Reginelli Denver, Co.

Pool Energy Corp. Denver, Co.

MEGADON ENTERPRISES, INC.

309 Guaranty Bank Building • 817 17th St. • Denver, Colorado 80202 • (303) 573-0093 57 West South Temple • Salt Lake City, Utah 84101 • (801) 359-3575 file in nigged = 15 1-15 wall file 235 17E. Cimil Co.

August 18, 1982



Mr. Calvin K. Sudweeks
Department of Health
Division of Environmental Health
150 West North Temple
P. 0. Box 2500
Salt Lake City, Utah 84110-2500

DIVISION OF OIL, GAS & MINING

Re: Plans for Water Disposal

Dear Mr. Sudweeks:

Your letter of July 30, 1982 requested additional information be submitted regarding our application for a water disposal pit at one of our producing oil wells in the Salt Wash Field in Grand County, Utah. The requested information is as follows:

- 1. Detailed diagramatic plans of the construction of the pit are shown on the attached drawings. These are self explanatory.
- As explained in our application the surface sediments at the site of the pit and in the cliff faces about 1000' SW. of the site are red shales and siltstones belonging to the Morrison (top of cliff#sides), Summerville (surface and below), and Curtis (just below Summerville). The Summerville-Curtis sequence is about 600 feet thick. The successive sequence of sediments below the Curtis is as follows:

Entrada formation: (Tan, m.g. rd'd sandstone) 600' to 950' (350' thick)

Navajo formation: (Red, m.g. rd'd, aeolian sandstone; red shale and siltstone) 950' to 1250' (300' thick)

Kayenta formation: (Red siltstone with some thin sandstone beds) 1250' to 1300' (50' thick)

Wingate formation: (Red, f.g. to c.g. aeolian, rd'd sandstone and siltstone) 1300' to 1550' (250' thick)

Chinle formation: (Red, gry, purple, and blk shale; red silstone, some sandstone, and gry limestone) 1550' to 1950' (400' thick)

August 18, 1982 Page 2 Water Disposal Pit

> Short narrow drainage patterns are developed along the edges of the cliffs to the west of the site and extend eastward down the slope to the wash located about one mile to the east. Since these are short and have a limited collection system the amount of surface flow of water is small and limited to brief periods during and after storms. Protection against this small run-off is incorporated in the pit construction.

- Past experience with reserve pits during drilling operations in the area has revealed that permeability of the soils is low due to the amount of clay material in the shales and siltstones. There has been little or no problems with leakage of the pits. This together with the plastic liner should take care of any permeability problems.
- A copy of the analysis of the water to be stored in 4. the disposal pit is attached.
- As noted in our application considerable data has been obtained about the hydrological evaporation factors in the area by the Texas Gulf Potash operation at Dead Horse Point. The figures used in our application were given to us by this company. Records of their controls, results, and rate of evaporation over a number of years are no doubt available in your files.

We have incorporated a drainage system below our pond by the installation of the 4" tile, which should pick up any leakage almost immediately. The tile will be open to the surface at some point down the slope east of the pit. Thus any leakage can be detected quickly.

Your rapid completion of your review of our application would be greatly appreciated.

Sincerely yours

W. Don Quigley
President

WDQ/sb

Enclosure

Minerals Management Services Oil & Gas Division of Dept. of Natural Resources 309 Guaranty Bank Building • 817 17th St. • Denver, Colorado 80202 • (303) 573-0093 57 West South Temple • Salt Lake City, Utah 84101 • (801) 359-3575

55C.15 TZ35 R17E

September 2, 1982

Mr. Fred Pehrson Water Pollution Control Board Department of Health 150 West North Temple Salt Lake City, Utah 84101

> Plans for Produced Re: Water Disposal Pit

Dear Sir:

It is our understanding that there are some additional requirements desired to our plan for the construction of a water disposal pit or pond for produced water from our Salt Wash Field wells in T 23S, R 17E, SLM, Grand County, Utah. These items are:

- Increase the thickness of the polyethylene liner to 20 mm, instead of 6 mm. We agree to make this substitution; so please indicate this on your copy of the drawing accompanying plan submitted previously.
- Construct a small sump pit at the end of the drain tile to catch any leakage that may occur in the main pit; and line the sump with the same polyethylene material. We agree to add this requirement to our plan.

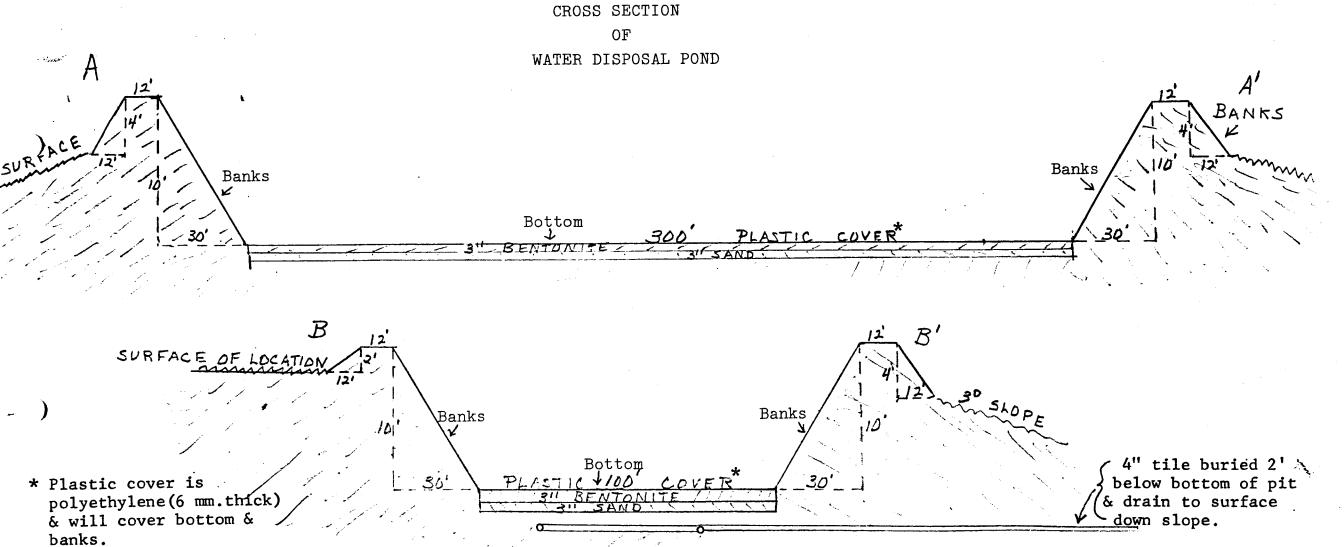
We urgently need to start construction of the subject pit, so your rapid approval is requested.

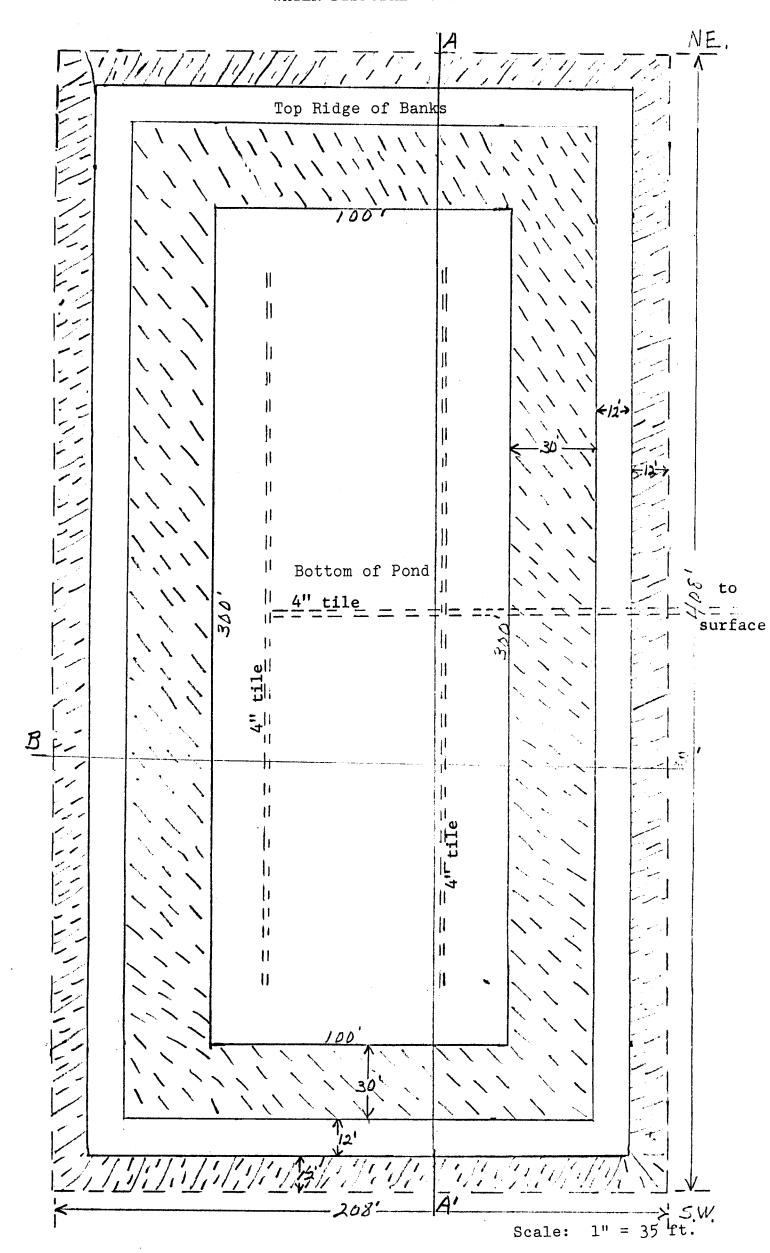
Sincerely yours.

cc: Minerals Management Services

Oil & Gas Division - Dept. of Natural Resources

Minoco





DRILLING HISTORY MEGADON ENERGY CORPORATION SALT WASH #1-15 WELL NW. SW. SEC. 15-23S-17E. GRAND COUNTY, UTAH

- Feb. 3-7: Moving rig (Empire Rig #5) from Salt Wash #1-16 to new location, S.W. #1-15, ½ mile; and rigging up.
- Feb. 8: Finished rigging up. Installed rotating head on conductor flange and hooked up blewie line. Drilled 42' to 332' (290') with 12½" bit and using air-mist for circulation. Survey at 112' was ½°; at 221' was ½°. Drilled at rate of 25 ft/hr.
- Feb. 9: Drilled 332' to 603' (271'). Drilling ahead w/20.000# on bit at rate of 12 ft/hr. Survey at 353' was 1½°; at 440' was 1½°; at 568' was 1½°. Made rd-trip at 353' for Bit #2. Bit #1 (Smith-Rerun) made 311' (42' to 353') in 15 3/4 hrs. Drilled at rate of about 20 ft/hr.
- Feb. 10: Drilled 603' to 901' (298'). Made rd-trip at 603' for new bit. Bit #2 (Reed-ReRun) made 2 0' (353' to 603') in 14½ hrs. Drilled at rate of 17 ft/hr. Survey at 682' was 3/4°; at 807' was 3/4°.
- Feb. 11: Drilled 901' to 1183' (382'). Survey at 931' was 3/4°; at 1058' was 1°; at 1183' was 1°. Made rd-trip at 988' for new bit. Bit #3 (HTC-OSC32) made 385' (603' to 988') in 24 hrs. Drilling at avg. rate of 16 ft/hr. Est. top of Wingate at 970'.
- Feb. 12: Drilled 1183' to 1363' (180'). Drilling ahead at rate of 10 ft/hr. with air-mist and 15,000# wt. on bit. Survey at 1303' was 3/4°.
- Feb. 13: Drilled 1363' to 1470' (107'). Drilling slow in Chinle shale. Est. top of Chinle at 1410'. Survey at 1401' was 3/4°. Made rd-trip at 1401' for new bit. Bit #4 (Reed FP52 RR) made 413' (988' to 1401') in 33 hrs. Drilled at avg. rate of 12½ ft/hr.
- Feb. 14: Drilled 1470' to 1650' (180'). Made rd-trip for new bit at 1400' (2-3-81). Bit #5 (HTC-OSC-32-RR) made 84 ft (1316' to 1401'), (This interval was previously reported as drilled by Bit #4 which was an error) in 8 hrs. Drilled at an avg. rate

10 ft/hr. Made rd-trip at 1467' for new bit. Bit #6 (HTC-OSC-32-RR) made 66' (1401' to 1467') in 7 3/4 hrs. Drilled at avg rate of 8 ft/hr. Made rd-trip at 1539' for new bit. Bit #7 (Reed-Y12J-RR) made 72 ft (1467' to 1539') in 9½ hrs. Drilled at an avg. rate of approx. 8 ft/hr. Drilling in Chinle shale, siltstone and sand.

- Feb. 15: Drilled 1650' to 1855' (205'). Est. top of Shinarump at 1680' and top of Moenkopi at 1830'. Drilled to 1855' and decided to run surface casing. Mixed mud and pumped in hole after pulling 7 stds. Plugged bit with LCM so had to make trip to unplug bit. Had wet string.
- Feb. 16: Went in hole with 10 stds and filled hole and circulated 15 minutes. Went to bottom and conditioned hole for running casing. Came out and ran 48 jts of 4 5/8", 36.00#, K-55 casing (1850'). Landed casing at 1846' K.B. and cemented w/600 sks reg. cement w/3% CaCl. Didn't get return with last 100 sks cement. Ordered out 100 more sks cement and cemented down from surface. Filled up with 50 sks.
- Feb. 17: Waiting on cement to set. Cut off casing and welded on head. Nippled up tested BOP (blind and pipe rams) to 2000#. Blew hole dry and drilled out plug and cement. Tested casing and cement to 1000# and had no leaks.
- Feb. 18: Drilled 1855' to 2025' (170'). Began drilling ahead w/8 3/4" tooth bit using air for circulation at 2 P.M. Dusting and drilling at rate of 17 ft/hr. Bit #8 (Reed-Y12J-12½") mad 326' (1539' to 1855') in 24 hrs. Drilled at an avg. rate of 13½ ft/hr.
- Feb. 19: Drilled 2025' to 2260' (235'). Dusting good and drilling at rate of 16½ ft/hr with 20,000# on bit. Survey at 2092' was 10.
- Feb. 20: Drilled 2260' to 2477' (217'). Survey at 2279' was $1\frac{1}{4}^{\circ}$. Hole got wet at 2304'. Made rd-trip at 2309' for new bit. Bit #9 (Reed-Y12J-8 3/4") made 454' (1855' to 2309') in 23 3/4 hrs. Drilled at avg. rate of 19 ft/hr. Converted to mist-drilling at 2310' after trip. Estimated cost to date = \$316,100.
- Feb. 21: Drilled 2525 to 2665' (140'). Survey at 2525' was 1°. Drilling in very hard quartzitic sand of Coconino. Drilling with airmist. Drilling w/30,000# on Bit #9 (Reed-Y12J) made 1454' (1855-2309') in 27 3/4 hrs. Drilled at avg. rate of 52 ft/hr.
- Feb. 22: Drilled 2665' to 2666' (1'). Bit wouldn't drill so came out of hole and found all the cones and shanks gone. Bit #10

(Reed HS51) drilled 357' (2309' to 2666') in 41½ hrs. Drilled at an avg. rate of 9 ft/hr. in Coconino quartzite. Ordered magnet and Globe basket. Waited 4½ hrs. on tools. Went in hole with Globe basket. Came out of hole and recovered one cone. Made another round trip with basket and recovered nothing. Went in hole with magnet but hole too tight so couldn't get to bottom with magnet.

- Feb. 23: Fishing. Went in hole with bit and began reaming and washing to bottom. Reamed 120 feet. Finished reaming hole to bottom at midnight.
- Feb. 24: Came out of hole with bit and went back in with magnet. Worked magnet on bottom and came out of hole. Recovered nothing so ordered out a larger Globe basket (8") with teeth and clusterite on bottom. Waited 5½ hrs on tools. Went in hole with Globe basket and worked basket down over junk and drilled ahead ½ foot.
- Feb. 25: Came out of hole and recovered all the junk (two cones and three shanks). Went in hole with Bit #11 (Reed Y13J), which had been used to ream the hole, plus a junk sub and drilled ahead to 2682' to remove any bearings or junk left in hole. Made round trip for new button bit. Bit #11 made 18 feet (2666' to 2684') besides reaming hole for 120'.
- Feb. 26: Drilled 2682' to 2876' (194'). Drilling at rate of 13 ft/hr. in lower Coconino sand with air mist. Circulating pressure is 425#. Wt. on bit is 25,000#.
- Feb. 27: Drilled 2876' to 3053' (177'). Est top of Wolf Camp section at 2980'. Hole making lots of water. Both reserve pits nearly full. Have water truck hauling water from pits. Made rd-trip at 2927' for new bit. Bit #12 (HTC-J33) made 243' (2684-2927') in 22 hrs. Drilled at avg. rate of 11 ft/hr.
- Feb. 28: Drilled 3053' to 3114' (61'). Survey at 3083' was 1½°. Hole making too much water. Must convert to mud. Pulled 10 stds and circulated hole. Came out of hole to remove rotating head and nipple up to mud tanks. Began mixing mud. Total estimated cost to date is \$411,112.

- Mar. 1: Drilled 3114' to 3274' (160'). Went in hole with Bit #14. Had plugged bit so came out of hole to unplug bit. Began drilling ahead with mud at 0445 hrs. Drilling at rate of 10 ft/hr. in siltstone and limestone.
- Mar. 2: Drilled 3274' to 3495' (221'). Drilling steady at rate of approximately 10 ft/hr. in limestone and siltstone.
- Mar. 3: Drilled 3495' to 3775' (280'). Survey at 3509' was ½°. Drilling steady at rate of 12 ft/hr. in limestone. Weight on bit is 35,000# at 60 RPM. Mud wt. is 9.0, Visc. is 35, and W.L. is 19cc.
- Mar. 4: Drilled 3775' to 3937' (162'). Drilling rate decreased from 6 min/ft. to 12 min/ft. at 3900'; due to cherty, dense dolomite.
- Mar. 5: Drilled 3937' to 4065' (128'). Drilling rate is 5 to 6 ft/hr. with 35,000# on bit at 60 RPM. Pump pressure is 850#.
- Mar. 6: Drilled 4065' to 4124' (59'). Made rd-trip at 4116' for new bit. Bit #14 (Security S86F) made 1002' (3114' to 4116') in 119 3/4 hrs. Drilled at an avg. rate of 8½ ft/hr. Survey at 4064' was ½°. Had to ream 60 ft. back to bottom. Began drilling ahead at 9:45 P.M. Estimated cost to date is \$461,554.00.
- Mar. 7: Drilled 4124' to 4345' (221'). Drilling at an avg. rate of about 10 ft/hr. in limestone and chert. Est. top of Hermosa formation at 4180'.
- Mar. 8: Drilled 4345' to 4514' (169'). Drilling rate decreased to about 7 ft/hr. Running 25,000# wt. on bit at 55 RPM. Pump pressure 1200# at 60 S/M. w/5½" liners and 16" stroke. Mud Wt. is 8.9, Visc. is 36.
- Mar. 9: Drilled 4514' to 4646' (132'). Drilling rate decreased to about 6 ft/hr. in cherty limestone and dolomite.
- Mar. 10: Drilled 4646' to 4666' (20'). Started out of hole at 7:30 A.M. to repair main drum on draw-works (Drum housing had seven cracks in it) 0730 to 2400 hrs: Down for repairs (16½ hrs).

- Mar. 11: Down for repairs on draw-works (24 hrs.).
- Mar. 12: Drilled 4666' to 4694' (28'). 0000 hrs to 0700 hrs:
 Repair work on draw-works. 0700 hrs to 1300 hrs:
 Going in hole with Bit #16 (½ the time (3 hrs) on contractor making total of 50 hrs. down time for rig repair). Bit #15 (Smith F-3) made 550' (4116' to 4666') in 77 hrs. Drilled at avg. rate of 7 ft/hr. Began drilling ahead at 3 P.M.
- Mar. 13: Drilled 4698' to 4879' (181'). Survey at 4789' was ½°.

 Drilling in cherty colomite at rate of 7½ ft/hr.
- Mar. 14: Drilled 4879' to 5022' (143'). Est. top of Ismay at 4930' and top of Desert Ck. at 5008'. Had slight show in Ismay. Had sucrosic to chalky lms. w/slight stain, scattered fluorescence and weak cut.
- Mar. 15: Drilled 5039' to 5234' (195'). Drilling in salt at rate of 15 ft/hr. Down 5½ hrs for work on pumps. Survey at 5176' was a mis-run.
- Mar. 16: Drilled 5234' to 5459' (225'). Survey at 5200' was 3/4°. Down 5½ hrs for work on pumps. Drilled salt to 5430', at rate of 15 to 20 ft/hr.
- Mar. 17: Drilled 5459' to 5595' (141'). Survey line broke so had to make short trip to retrieve line (5 hrs down time). Survey at 5450' was 1½°. Drilled clastics from 5430' to 550'. Had good shows in black petroliferous shale, very gassy and had strong odor. No fluorescence.
- Mar. 18: Drilled 5595' to 5656' (61'). Had sticky-gummy shale at 5630' to 5650' and had to work pipe very carefully thru this zone. Worked 7½ hours trying to circulate hole free and make a connection. Down 10 hrs. for work on draw-works and pump motor.
- Mar. 19: Drilled 5656' to 5752' (96'). Down 10½ hours waiting on parts and work on draw-works and pumps. Installed new clutch on draw-works motor. Drilled salt from 5680' to 5750'.

- Mar. 20: Didn't drill. Down for 24 hrs. working on rig.
- Mar. 21: Drilled 5752' to 5890' (138'). Down 13½ hrs for work on rig and getting back to bottom to drill. (Down 74 hrs this week for work on rig.)
- Mar. 22: Drilled 5890' to 6209' (319'). Drilling in salt and anhy-drite at avg. rate of 4 min/ft.
- Mar. 23: Drilled 6209' to 6461' (252'). Drlg in salt and anhydrite at rate of 4 to 13 min/ft. A clastic zone at 6375' to 6440' drilled slow due to black shale and anhydrite. Mud wt. is 10.3, Visc. is 44, and water loss at 30. Drilling with 12,000# wt. on bit in the salt and 25,000# in the clastics.
- Mar. 24: Drilled 6461' to 6609' (148'). Survey at 6578' was 3°. Made rd-trip at 6578' to check bit and put on stabilizer, but decided not to put on stabilizer and bit was okey.

 Down time for work on draw-works transmission was 1½ hrs.
- Mar. 25: Drilled 6609' to 6819' (210'). Survey at 6764' was 2 3/4°. Clastic zone (black shale and anhydrite) at 6590' to 6630' drilled at rate of 10 min/ft.
- Mar. 26: Drilled 6819' to 7030' (211'). Clastic zone at 6760' to 6875' (black shale and anhydrite) drilled slow at rate of 10-12 min/ft. Shale was very petroliferous and had strong gas odor, but no cut or fluorescence.
- Mar. 27: Drilled 7030' to 7308' (278'). Survey at 7038' was 2 $3/4^{\circ}$. Drilling in salt and shale.
- Mar. 28: Drilled 7308' to 7590' (282"). Drilling in salt and thin beds of black shale. Drilling with 10 to 20M# on bit, 55 RPM, and 1100# pump pressure. Mud wt is 10.4, visc is 38, and W.L. is 21.
- Mar. 29: Drilled 7590' to 7830' (240'). Survey at 7693' was 4°. Decreased wt on bit to keep hole wtraight. Drilling in salt at rate of 4 to 5 min/ft.
- Mar. 30: Drilled 7830' to 8039' (209'). Survey at 7887' was 4 3,'4°. Down 4½ hrs for rig repair. Started out of hole at 8039' for rig repair work on pumps and draw-works.
- Mar. 31: Work on rig repair. (Down for 24 hrs.)

- Apr. 1: Work on rig repair. (Down 24 hrs)
- Appr.22: Drilled 8039' to 8176' (137'). Began drilling ahead at 0230 AM (2½ hrs down time). Drilling in black petroliferous shale and anhydrite of Cane Ck section. Cane Ck section was at 8070' to 8160'. Had more salt at 8160'.
- Apr. 3: Drilled 8176' to 8284' (118'). Survey at 8189' was 2 3/4°. Had some more salt at 8160' to 8205'; then went into the Pinkerton Trail section. Drilled black shale, anhydrite, and dolomite at rate of 14 to 18 min/ft.
- Apr. 4: Drilled 8294' to 8386' (92'). Drilling in Pinkerton Trail section in dolomite, anhydrite, and black shale. Drlg at rate of 4 ft/hr with 30,000# wt on bit and turning at 60 RPM. Mud wt is 10.4, Visc is 40, and w.l. is 23. Estimate cost to date is: \$705,847.
- Apr. 5: Drilled 8386' to 8484' (98'). Est. top of Mississippian Leadville formation at 8400'. Had white to light gray cyrstalline to sucrosic limestone with scattered oil stain and fluorescence. Had brown oil in samples and on mud. Good cut and fluorescence. Chalky limestone with oil stain.
- Apr. 6: Drilled 8484' to 8542' (58'). Getting good shows and more oil on mud. Decided to run DST. Circulated for ½ hour and made short trip and circulated again for ½ hrs. Survey at 8542' was 40. Came out of hole and picked up DST tools.
- Apr. 7: Went in hole with test tools and ran DST #1 as follows: Interval: 8412' to 8542' (130')
 Init Flow: ½ hr Final Flow: ½ hrs

Init Shut-in: 1 hr Final Shut-in: 2 hrs
Blow: Gas to surface in 20 min Strong blow th

Blow: Gas to surface in 20 min. Strong blow thru-out test. Final flow was 23# on ½ choke. (Calculated 695 MCFPD on open flow.)

Rec: 1350' of fluid (200' of gas cut mud and 1150' of gas cut oil).

Sample Chamber: 200# pressure; .83 cu. ft. of gas; 800 cc. of oil and 200 cc. of mud. (52 gravity oil at 70°).

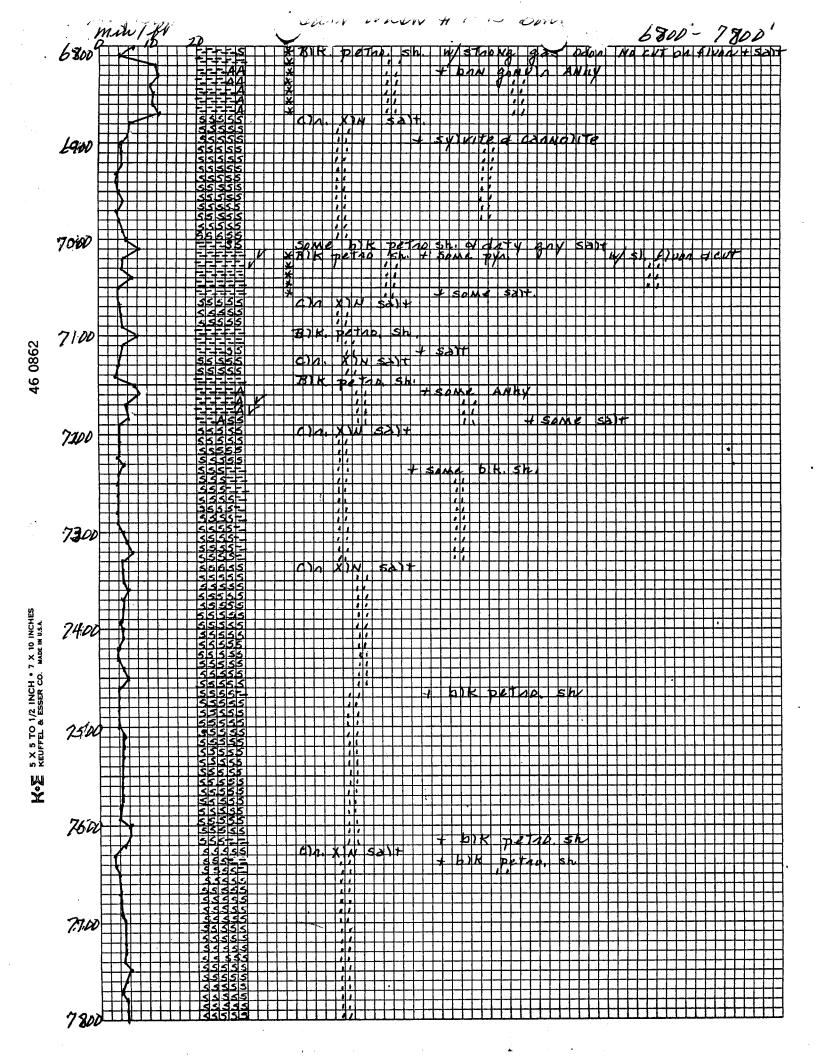
Pressures:

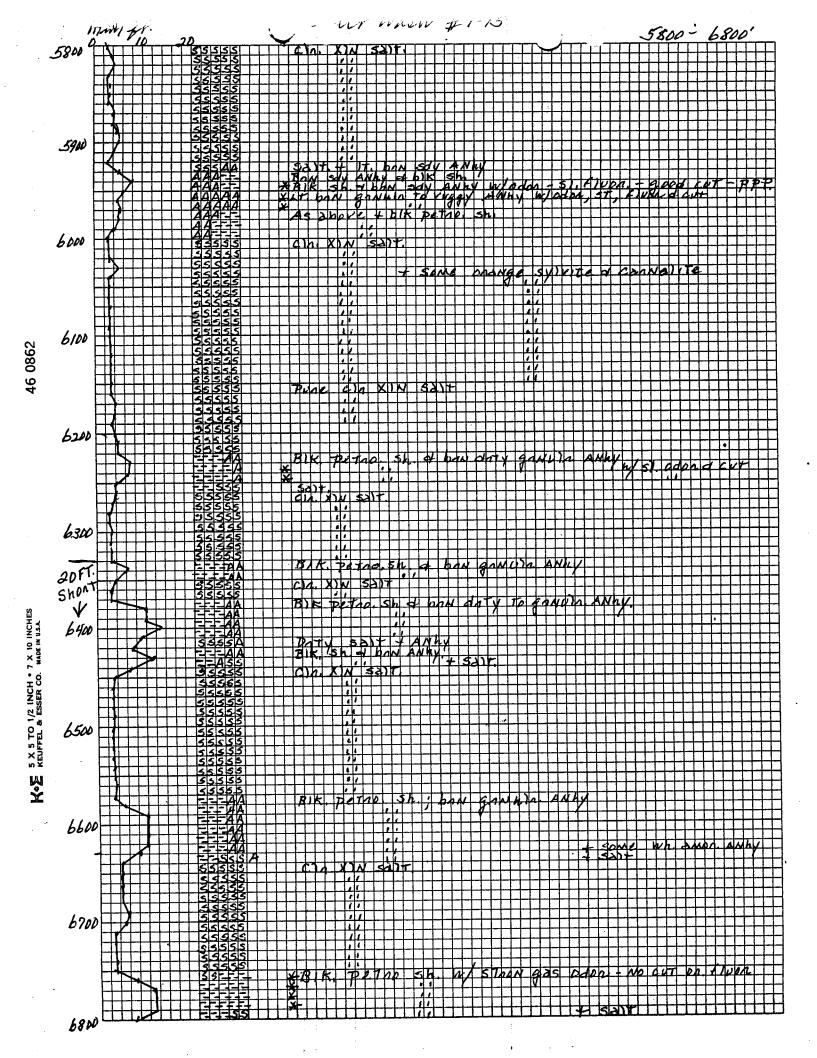
IFP = 192-368# FFP = 318-519#
ISIP = 3813# FSIP = 3813#
IHP = 4681# FHP = 4668#
BHT = 1440

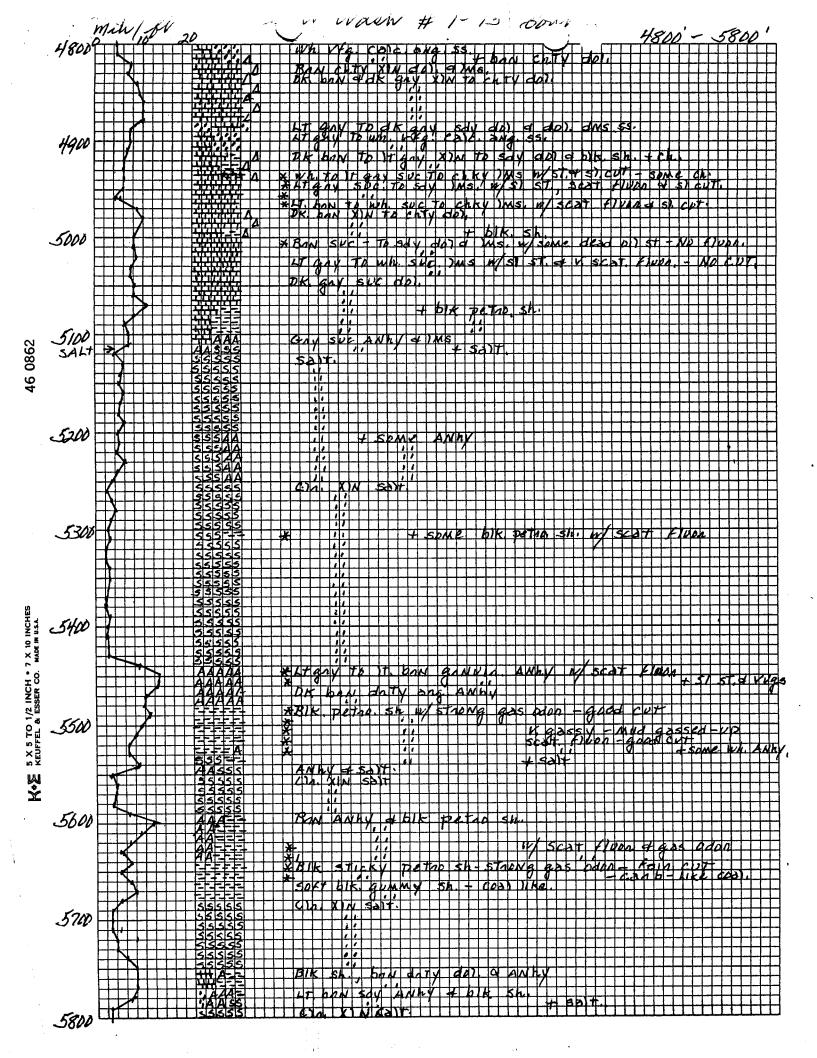
Came out of hole with test tools and loaded same on truck. Cut drilling line and went back in hole with Bit #18 (Reed Re-run). Bit #17 (HTC-J33) drilled 1944 feet (6578-8542') in 247½ hrs. Drilled at an avg. rate of approximately 8 ft/hr.

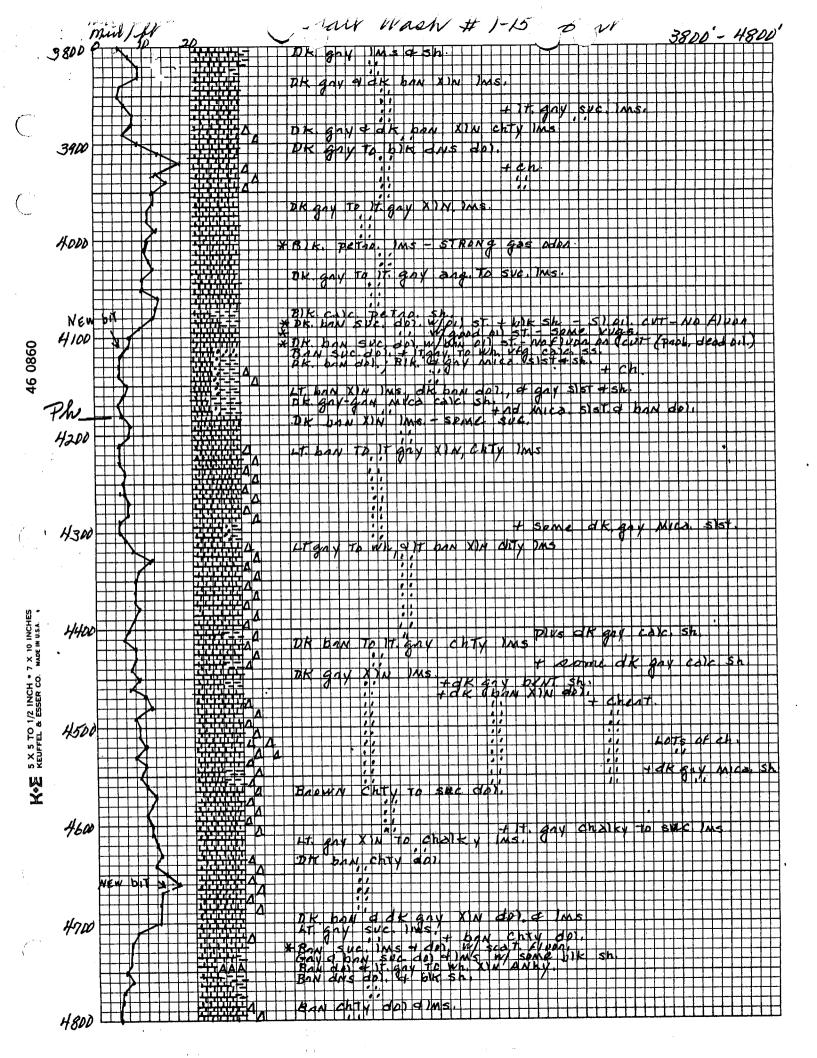
- Apr. 8: Drilled 8542' to 8585' (43'). Decided to quit drilling at 8585' due to possible water zone at depth. Had more shows in Xlu to suc. to chalky limestone. Conditioned mud and circulated hole in preparation for logging. Came out of hole.
- Apr. 9: Logging well. Schlumberger tools wouldn't work so had to wait 12 hours for more tools. Ran Dual-Laterolog and Gamma-Density-CNL logs. Finished logging at 6:30 PM. Went back in hole to circulate and prepare to run casing. Unloaded casing.
- Apr. 10: Circulated hole and conditioned mud and came out of hole laying down drill pipe and drill collars. Finished lay-, ing down pipe at 10 PM. Rigged up to run casing.
- Apr. 11: Ran 5½", 20#, and 17#, R-3, N-80 and K-55 casing. Landed casing at 8587' (240 jts) and cemented casing in 2 stages. First stage was 425 sks cement from bottom to about 7000'. DV tool was set at 7081'. Second stage from 7081' to about 3800' with 725 sks of super strength cement. Waited 4 hrs between cement stages. Second plug down at 7:00 PM. Began rigging down, cleaning mud pits, etc.
- Apr. 12: Set casing slips at 8 AM and cut off casing. Continued to rig down and move rig.

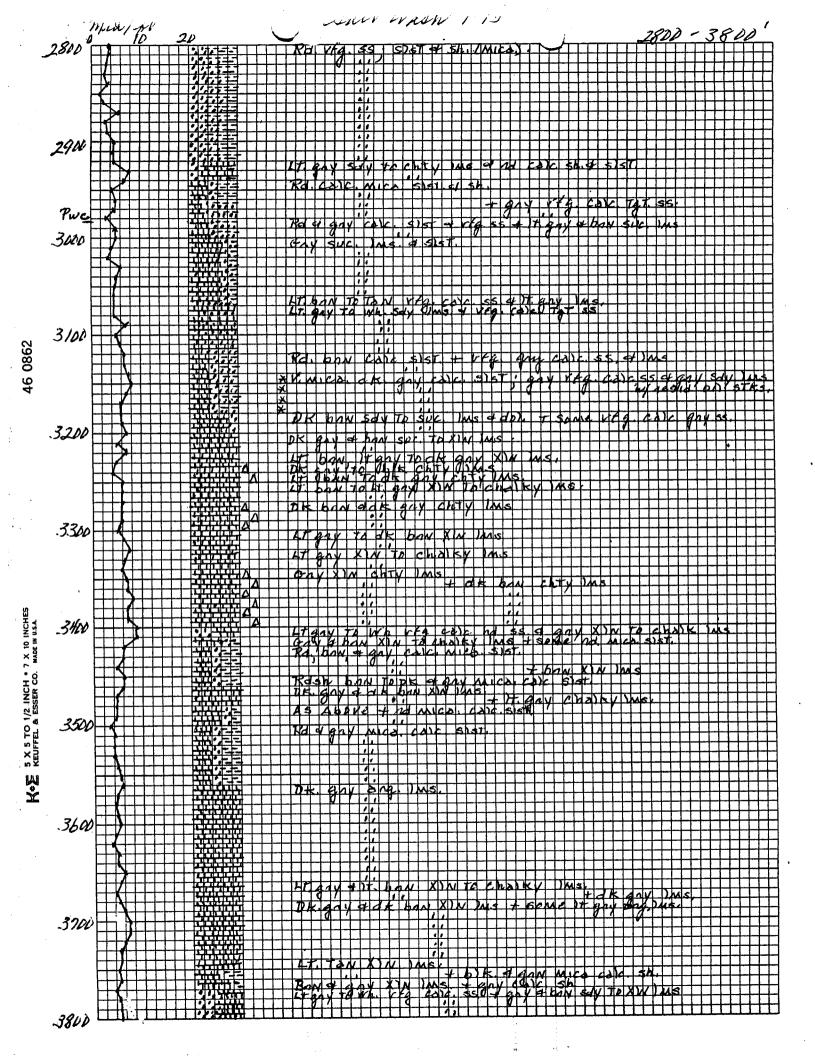
Drilling operations on the well are finished and completion work will be done as soon as a rig and personnel are available. Total estimated cost to date is: \$956,775.

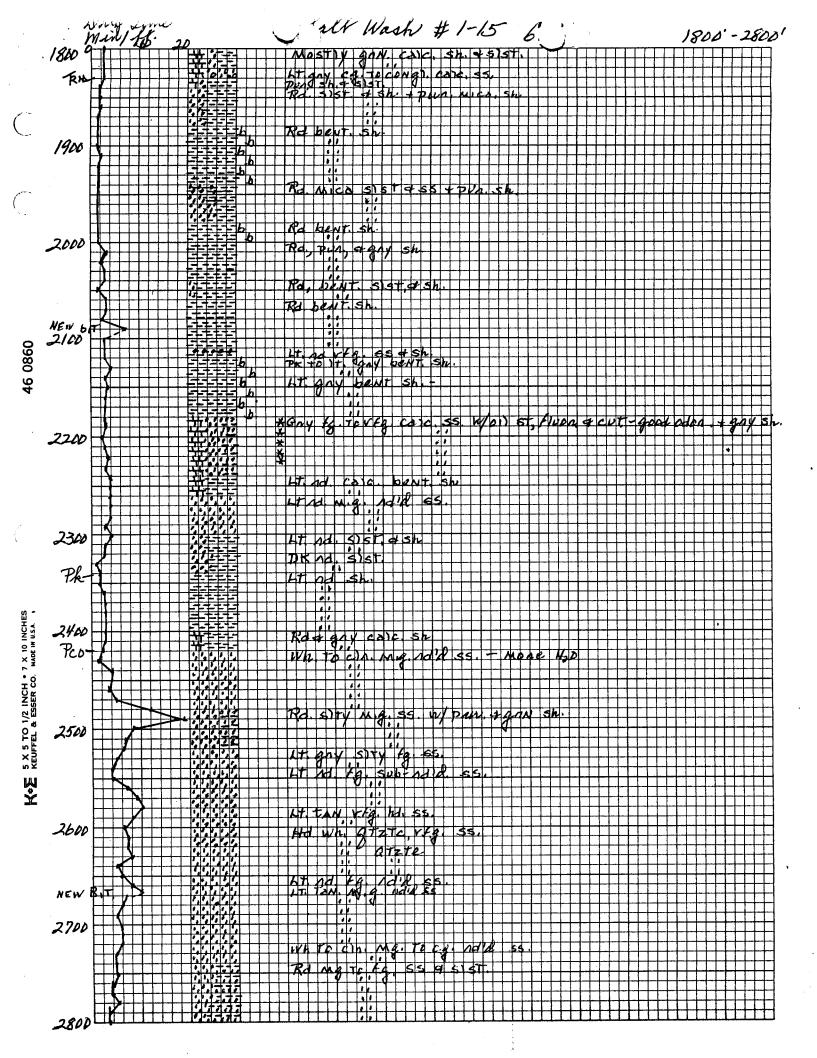


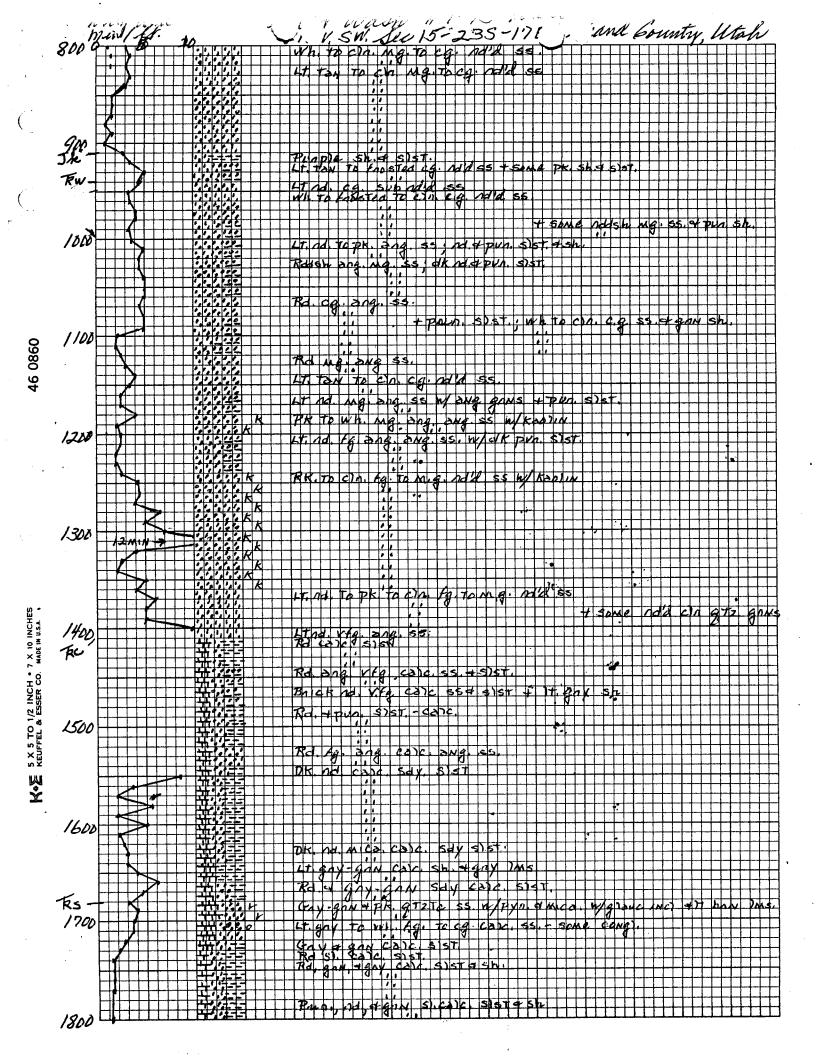












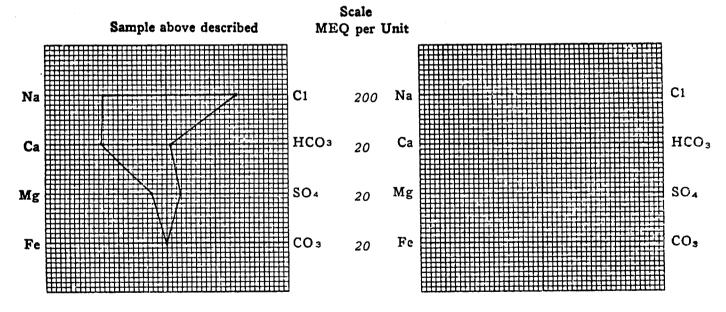
CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

WATER ANALYSIS REPORT

OPERATOR Megadon Energy Corp. WELL NO. Salt Wash Federal 1-15 FIELD			DATE LOCATION FORMATION	4-29-81 LAB NO. 37323-1 Section 15-23S-17E 8412-8542 DST #1 (Bottom) (4-7-81)		
COUNTY Grand STATE Utah		INTERVAL SAMPLE FROM				
REMARKS & CONCL	.usions:					
Cations	mg/1	meq/1	Anions		mg/1	meq/1
Sodium	<u>59748</u>	2599.02	Sulfate		2830	58.86
Potassium	1584	40.55	Chloride		102400	2887.68
Lithium			Carbonate	·	0	0.00
Calcium	- 5232	261.08	Bicarbonate -		951	15.60
Magnesium Iron	- 748 present	61.49	Hydroxide - · Hydrogen sulfide			
Total	Cations	2962.14	•	Fotal Ani	ons	2962.14
Total dissolved solids, and NaC1 equivalent, mg/1	-	173010 172271 6.7	Specific resistance Observed Calculate		0.	058 ohm-meters

WATER ANALYSIS PATTERN



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter

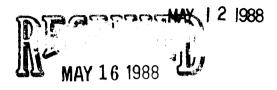
Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

UNITED STATES SUBMIT IN TRIPLICATES DEPARTMENT OF THE INTERIOR Versu side; GEOLOGICAL SURVEY	Form approved. Budget Bureau No. 42-R1424. G. LEASE DESIGNATION AND SERIAL NO. U-031805
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to divepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" (or such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL WILL OTHER	7. UNIT AGREEMENT NAME
MEGADON ENTERPRISES INC.	8. FARM OR LEASE NAME Federal
Suite 360; 57 West South Temple, Salt Lake City, Utah 84101	9. WILL NO. Salt Wash #1-15
Location of WELL (Steport location clearly as a accordance with any State requirements.* See also space 17 below.) At surface NW. SW. Section 15-23S-17E. 1857! Fr. S-line and 529' fr. W-line	10, FIELD AND FOOL, OR WILDCAT Salt Wash 11, SEC., T., R., M., OR BLE, AND SURVEY OR LAEL NW. Sec 15-23S-17E.
4. PERMIT NO. 15, E; TIONS (Show whether DF, NT, GR, etc.) 4277 Grd; 4295 K.B.	SIM 12. COUNTY OF PARISH 13. STATE Grand Utah
BROOT OR ACIDIZE ABANDON* CHANGE PLANS (Other) To describe Propugation of Compute Propugations (Clearly state all pertinent details, and give pertinent data.	of multiple completion on Well
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the sand the high cost of completion due to extensive requirements by the of Health and Water Resources. In order to meet their requirements range between \$35,000 and \$50,000 for the accompletion of the resources.	ension for a lengthy on reservoir for ad state of economics he State Department s. the cost would
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the s and the high cost of completion due to extensive requirements by t	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the sand the high cost of completion due to extensive requirements by the of Health and Water Resources. In order to meet their requirement range between \$35,000 and \$50,000 for the completion of the pit. of the oil simply does not warrant this kind of investment. Therefore, it is requested that the pit, in its present state, be purposes only. In the event of an emergency due to possible leaka	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the sand the high cost of completion due to extensive requirements by the of Health and Water Resources. In order to meet their requirement range between \$35,000 and \$50,000 for the completion of the pit. of the oil simply does not warrant this kind of investment. Therefore, it is requested that the pit, in its present state, be purposes only. In the event of an emergency due to possible leaka	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the sand the high cost of completion due to extensive requirements by the of Health and Water Resources. In order to meet their requirement range between \$35,000 and \$50,000 for the completion of the pit. of the oil simply does not warrant this kind of investment. Therefore, it is requested that the pit, in its present state, be purposes only. In the event of an emergency due to possible leaka	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the sand the high cost of completion due to extensive requirements by the of Health and Water Resources. In order to meet their requirement range between \$35,000 and \$50,000 for the completion of the pit. of the oil simply does not warrant this kind of investment. Therefore, it is requested that the pit, in its present state, be purposes only. In the event of an emergency due to possible leaka	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the s and the high cost of completion due to extensive requirements by t of Health and Water Resources. In order to meet their requirement range between \$35,000 and \$50,000 for the completion of the pit. of the oil simply does not warrant this kind of investment. Therefore, it is requested that the pit, in its present state, be purposes only. In the event of an emergency due to possible leaka something of that nature, we will notify you of same.	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price
An evaporation pit at the above well has been in the state of susp period of time. The completion of the pit for use as an evaporati water produced by the above well has been delayed because of the sand the high cost of completion due to extensive requirements by the of Health and Water Resources. In order to meet their requirement range between \$35,000 and \$50,000 for the completion of the pit. of the oil simply does not warrant this kind of investment. Therefore, it is requested that the pit, in its present state, be purposes only. In the event of an emergency due to possible leaka	ension for a lengthy on reservoir for ad state of economics he State Department s, the cost would The present price

Moab District P. O. Box 970 Moab, Utan 84532

CERTIFIED RETURN RECEIPT REQUESTED Certification No. 0492

Mr. W. Don Ouigley Megadon Enterprises, Inc. 57 West South Temple, Suite 360 Salt Lake City, Utan 84101



DIVISION OF OIL. GAS & MINING

Re: Evaportation Pit: Salt Mash 1-15 Well; Grand County, Iltan

fir. Quigley:

This office is in receipt of your sundry notice dated March 11, 1988 regarding the above-referenced evaporation pit. This sundry notice is being returned to you unapproved.

The sundry notice, requesting approval for use of the pit at the Salt Wash 1-15 Mell, has been thoroughly reviewed by both Eureau of Land Management (BLM) staff, as well as by Utan State Division of Oil, Gas, and Mining (DOGM) staff. It is our determination that this pit does not neet standards for use as an emergency pit or for permanent disposal of produced water. Therefore, you are also prohibited from further use of this pit on any basis until the pit is upgraded to standards outlined by both the BLM and DOGM.

This office is concerned that the pit site has remained idle since work was stopped on it's construction in April 1983. You state that the price of oil is at issue whether or not the pit is completed to BLM and DOGM standards. When construction was halted five years ago, the price of oil had not started it's downward trend, and the pit should have been completed at that time, or shortly thereafter. We therefore feel it improper to consider the current price of oil in regard to your request.

You are hereby requested to submit to this office, within sixty (60) days of receipt of this letter, your future plans regarding this pit. It must be brought up to standards identified in the original approvals from the BLM and BOSM, or plans submitted for it's reclamation. If you choose to abandon and reclaim the pit, we will work with you on appropriate time frames to complete this work.

Failure to comply with this written order will result in an assessment of \$250.00 in accordance with 43 CFR 3163.1(a)(2), as well as civil penalties charged daily according to 43 CFR 3163.2.

You may request an Administrative or State Director Review of this Action, in accordance with 43 CFR 3165.3. Such a request, including all supporting documentation, must be filed in writing within twenty (20) working days from the receipt of this letter to the State Director, Eureau of Land Management, 324 South State Street, Salt Lake City, Utah 84111-2303. Such a request shall not result in a suspension of this action, unless the reviewing official so determines.

Please feel free to contact the Branch of Fluid Minerals at (801)-259-6111, if you have any questions or comments.

Sincerely yours.

/S/ GENE NODINE

District Manager

Enclosure: Sundry Notice dated March 11, 1988

cc: U-922 (w/encl.) U-068 (w/encl.) U-065, Paul Brown (w/encl.) Mr. Gil Hunt, Division of Oil, Gas, and Mining (w/encl.) 3 Triad Center, Suite 350 Salt Lake City, Utan 84130-1203

phrownipy 5/9/85 Sans #1990f

SARANAN LAND COMPANY, INC.

BECEIVED

APR 2 1 1993

RON, / FRANK

DIVISION OF OIL GAS & MINING

HERE IS A COPY OF OUR SUNdry

FOR THE MEGADON #1-15 TZ3 & RITE, SECTION 15,

VERBAL COMMUNICATIONS SHOULD BE TO ME.

CARL HITTLE 303-665-4254

WRITTEN COMMUNICATIONS to the below ADDRESS IN LITTLETON

> THANK, Call Wille

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993
ase Designation and Serial No.

BUREAU OF L	5. Lease Designation and Serial No.	
	U-31805 6. If Indian, Allottee or Tribe Name	
SUNDRY NOTICES		
Do not use this form for proposals to dri	or to deepen or reentry to a different result PERMIT—" for such proposals	
Use APPLICATION FOR	TOIS CISIL W	7. If Unit or CA, Agreement Designation
SUBMIT	IN TRIPLICATE	Salt Wash Unit
002		
1. Type of Well	APR 2 1 1993	8. Well Name and No.
Well Well Cother		Megadon #1-15
2. Name of Operator	DIVISION OF	9. API Well No.
Megadon Energy Corporati	OH GAS & MINI	NC 43-019-30752
3. Address and Telephone No. 175 South West Temple, Ste	5 10. Field and Pool, or Exploratory Area	
4. Location of Well (Footage, Sec., T., R., M., or Survey De	Salt Wash	
1857' From S-Line & 529'	From W-Line	11. County or Parish, State
1857' From S-Line & 323	DITE SIM	Grand County, Utah
NW.SW. Section 15, T23S,	RI/E, SDM	
OUTOK ADDDODDIATE BOY	s) TO INDICATE NATURE OF NOTICE,	REPORT, OR OTHER DATA
12. CHECK APPROPRIATE BOX	TYPE OF	ACTION
TYPE OF SUBMISSION	TIPE OF A	
Notice of Intent	Abandonment	Change of Plans
Motte of Intern	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Subsequent reper	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other	Dispose Water (Note: Report results of multiple completion on Well
		Completion or Recompletion Report and Log form.)
13. Describe Proposed or Completed Operations (Clearly state a	Il pertinent details, and give pertinent dates, including estimated dates and give pertinent to this work.)*	ate of starting any proposed work. If well is directionally direct
give subsurface locations and measured and true verd	1. 10 1003	v:11 well with 10#≠
Move work over rig to 1	Location on April 19, 1993. P and pull and inspect tubic ring. Set cement retainer	ing Run casing scraper
being water, install DU	r and putt	+ OSSA! ON WITE LINE
to 8555', then run gaug	05001 vith 50	n_ 100 sacks neat cement.
and squeeze bottom peri	S IIOm ooo	10+ hole stand over
pottom hole temp144 r	and in test results.	
night. Then swab upper	peris., osos sem mia for	horizontal recompletion
Set bridge plug at 8498	perfs., 8500-8542'. Will so 8-8500' wait on big rig for 11 program to follow pending	g results of above
if warranted. Horizonta	ii program or	(
work.	P	CCEPTED BY THE STATE
		OF UTAH DIVENICES OF
		OIL, GAS, AND MINENG
	ም ኒ ለ የምም።	/ _
	DATE:	4000
	BY:	JOY Jattkell
14. I hereby certify that the foregoing is true and correct		Date 4-14-93
(la) d I VUU ~	Title ACENT	Date 7-13-15
(Tais space for Federal or State office use)		· · · · · · · · · · · · · · · · · · ·
(This space for rederal or State office 430)	Tiele	Date
Approved by	Title	
Conditions of approver, in mil.		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SARANAN LAND COMPANY, INC.

Ron Firth 355 West North Temple 3 Triad Center Ste. 350 Salt Lake City, Utah 84180 NEGELVEU

DIVISION OF CAS & MINING

May 18, 1993

Ron,

Enclosed is a copy of our Sundry Notice and application for the horizontal recompletion of the Megadon #1-15 as submitted to the BLM. Please advise me as to any requirements you have and feel free to contact me at 303-665-4254, I would appreciate written communications to be sent directly to me at:

311 East Geneseo St. Lafayette, Colorado 80026

Respectfully,

Carl I. Hittle Vice President

Saranan Land Company



CASING PROGRAM AND HOLE SIZE

Cut 70' Window in 5-1/2" casing at 8,250'

Drill 4-1/2" Hole 1,000' Lateral at 8,480' TVD



OUTLINE OF RECOMMENDED DRILLING FLUIDS PROGRAM

INTERVAL (feet)	MUD WEIGHT (1bs/gal.)	VISCOSITY (sec/qt.)	FLUID LOSS (m1/30 min.)	MUD TYPE
0' - 8,250'	8.6 - 8.8	28 - 32	No Control	Brine Water/Sweeps
8,250' - TD	8.6 - 8.8	32 - 34	15 cc's/less	LSND/Uni-Drill

Mill the 5-1/2" casing with brine water and Salt Gel sweeps. Set cement and dress the plug, then mud up a fresh water system.

The importance of solids control equipment cannot be overemphasized for its application in minimizing mud costs, optimizing penetration rate, and improving mud characteristics especially when using this type system. All mechanical solids removal equipment should be run continuously to maintain solids control and should be checked tourly to insure its proper operation. We highly recommend the use of a centrifuge.

ESTIMATED COST

This well should be completed in 10-15 days. The mud cost, based on our enclosed 1992 retail price list, should be approximately \$8,000.00-\$10,000.00.

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U - 31805

SUNDRY NOTICES Do not use this form for proposals to dr Use "APPLICATION FO	6. If Indian, Allottee or Tribe Name	
SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Oil Well Well Other		Salt Wash Unit
	8. Well Name and No.	
2. Name of Operator	Megadon #1-15	
Megadon Energy Corp	poration	9. API Well No.
3. Address and Telephone No.	20 0 11 7 2 21 1 250 2555	43-019-30752
	. 20 Salt Lake, Utah 359-3575	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription) Repased BHL 363 FSL & 659 FWL	Salt Wash
1857' FSL & 529' FWL	especed DAN Control	11. County or Parish, State
NWSW Section 15, T23S, R1		Grand County, Utah
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment Recompletion (Horizontal)	Change of Plans
Subsequent Report	Recompletion (HOTIZOREAL) Plugging Back	New Construction Non-Routine Fracturing
_	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other	Dispose Water (Note: Report results of multiple completion on Well
13 Deveribe Proposed on Completed Operations (Clarity		Completion or Recompletion Report and Log form.)
give subsurface locations and measured and true vertice	Il pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)*	any proposed work. If well is directionally drilled.

Set bridge plug above existing perfs,(8500' -8544'). Mill out 15" of casing from 8235' - 8250'. Set whipstock and drill $4\frac{1}{2}$ " medium radius hole in SSE direction. A 1500' drain hole will be drilled at approximately 8500'. Wilson Directional's well profile is attached. Total measured would be 10,200'. A $3\frac{1}{2}$ ", 9.20#, N-80 liner will be run around the corner and hung

a minimum of 100' above the mill out. Completion will be in the Mississippian Leadville. A rotating head and BOP will be used for control.



MAY 1 9 1993

DIVISION OF CLUCAS & MINING

Signed Signed	Tide Agent	Date 4-30-93
(This space for Federal or State office use) Approved by Conditions of approval, if any:	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Bureau of Land Management Moab District Application for Permit to Drill On-Site Inspection Checklist

Company <u>Sa</u>	aranan Land Company	WellNo	Megadon #1-15
ocation: Se	c. <u>15</u> , T. <u>23S</u> , R. <u>17E</u> , Lea		
On-Site Inspe	ction Date		
regulations (4 conditions of	3 CFR § 3100), Onshore Oil and Gas	orders, the sible for the	appliance is made with applicable laws, a approved plan of operations and the actions of his subcontractors. A copy to ensure compliance.
A. <u>DRILLING</u>	<u>PROGRAM</u>		
1.	Surface Formation and Estimated Formation	ormation To	<u>ps</u> :
	ENTRADA_ SURFACE	Kaib	ab-2390
	Carmel- 310		nino- 2420
	Navajo- 465		Camp- 2985
	Kayenta- 910	Herm	osa- 4180
	Wingate- 930	Para	dox Salt- 5100
	Chinle- 1405		erton Trail- 8230
	Shinarump- 1675	Miss	-Leadville- 8410
	Moenkopi- 1835		
2.	Estimated Depth at Which Oil, Gas, to be Encountered	Water or Oth	ner Mineral Bearing Zones are Expected
	Depth/Formati		
	Expected Oil Zones: Leadville	- 8410'	
	Expected Gas Zones: Leadvil	le - 841	0 '
	Expected Water Zones: Coconi		
	Expected Mineral Zones:		
			
	All &		

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and will be cased and cemented. When possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to BLM. All oil and gas shows will be tested to determine commercial potential.

systems will be consistent with API RP 53 and Onshore Oil and Gas Course tests of the surface casing and all BOP equipment potentially sure will be conducted before drilling the surface casing shoe. Blowout rols will be installed prior to drilling the surface casing shoe and will re	
sure tests of the surface casing and all BOP equipment potentially sure will be conducted before drilling the surface casing shoe. Blowout rols will be installed prior to drilling the surface casing shoe and will re	o Ordor N
the well is completed or abandoned. Ram preventers shall be ins	ally subjea vout prevalenting remain in inspected
ated each trip (no more than once a day is necessary), and annular previous espected and operated weekly to ensure good mechanical working or ections shall be recorded in the drilling log and in the daily drilling rep	order. T
ng Program and Auxiliary Equipment -include casing size, weight, grade bling, setting depth and condition (new or acceptably reconditioned):	de, thread):
5/8" (36#) at 1846' cemented with 650 sx	er str
" 17&20# at 8587' cemented with 1150 sx super	<u> </u>
nent -include the cement type, density, yield, additives and amount us a casing string. Also include the anticipated cement fill-up. If stage cribe techniques:	
n casing string. Also include the anticipated cement fill-up. If stage	
n casing string. Also include the anticipated cement fill-up. If stage	ll be run
face casing shall be cemented back to surface. Centralizers shall imum, on the bottom three joints of each casing string. d Program and Circulating Medium -include mud components and weidrilling, also include: length and location of blooie line; description	veights. on of the
face casing shall be cemented back to surface. Centralizers shall imum, on the bottom three joints of each casing string. d Program and Circulating Medium -include mud components and weidrilling, also include: length and location of blooie line; description tor; description of the deduster equipment; and amounts, types and characters with the components and characters with the components.	veights. on of the characte
face casing shall be cemented back to surface. Centralizers shall imum, on the bottom three joints of each casing string. d Program and Circulating Medium -include mud components and weidrilling, also include: length and location of blooie line; description	veights. on of the characte
face casing shall be cemented back to surface. Centralizers shall imum, on the bottom three joints of each casing string. d Program and Circulating Medium -include mud components and weidrilling, also include: length and location of blooie line; description tor; description of the deduster equipment; and amounts, types and charand-by mud: Mud program designed by Unibar and is attered to potential for contamination of usable quality water aquifers, characteristics.	veights. on of the characte
face casing shall be cemented back to surface. Centralizers shall imum, on the bottom three joints of each casing string. d Program and Circulating Medium -include mud components and weidrilling, also include: length and location of blooie line; description tor; description of the deduster equipment; and amounts, types and chand-by mud: Mud program designed by Unibar and is attended to potential for contamination of usable quality water aquifers, chand from Federal leases.	veights. on of the characte
face casing shall be cemented back to surface. Centralizers shall imum, on the bottom three joints of each casing string. d Program and Circulating Medium -include mud components and weidrilling, also include: length and location of blooie line; description tor; description of the deduster equipment; and amounts, types and charand-by mud: Mud program designed by Unibar and is attered to potential for contamination of usable quality water aquifers, characteristics.	veights. on of the characte

	8.	bottom zones, Pr	mal Conditions, Bottom Hole Pressures and Potential Hazards -include anticipated hole pressure and/or pressure gradient. Also list anticipated lost circulation abnormal temperature zones and possible hydrogen sulfide bearing zones:essure_in_the Leadville is normal ere are no lost circulation zones
	9.	Any O	ther Aspects of this Proposal that should be Addressed:
B. <u>Ti</u>	The d	irt cont ions bef	SURFACE USE PLAN ractor will be provided with an approved copy of the surface use plan of fore initiating construction.
	1.	a.	Proposed route to location (submit a map depicting access and well location).
		b.	SEE MAP #/ Location of proposed well in relation to town or other reference point: 12 miles South of I-70 on Ranch Rd. 173
			25 miles from Green River, Utah
		c.	Contact the County Road Department for use of county roads. The use of San Juan County roads will require an encroachment permit from the San Juan County Road Department.
		d.	Plans for improvement and/or maintenance of existing roads:
			Existing roads are maintained by county and have been in place for nearly 30 years,
			no improvements are anticipated
		e.	Other:
	2.	Planne	ed Access Roads:
		a.	Location (centerline): road exists to location
		b.	Length of new access top be constructed:n/a
		c.	Length of existing roads to be upgraded: n/a
		А	Maximum total disturbed width:

Maximum travel surface width:	20+ feet
-	6%
Turnouts:	none
	al sand, silt, gravel, roc
	ulverts, etc): existing
	xisting

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by the Area Manager in advance.

If a right-of-way is necessary, no surface disturbing activities shall take place on the subject right-of-way until the associated APD is approved. The holder will adhere to conditions of approval in the Surface Use Program of the approved APD, relevant to any right-of-way facilities.

If a right-of-way is secured, boundary adjustments in the lease or unit shall automatically amend this right-of-way to include that portion of the facility no longer contained within the lease or unit. In the event of an automatic amendment to this right-of-way grant, the prior on-lease/unit conditions of approval of this facility will not be affected even though they would now apply to facilities outside of the lease/unit as a result of a boundary adjustment. Rental fees, if appropriate shall be recalculated based on the conditions of this grant and the regulations in effect at the time of an automatic amendment.

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligations determined by the authorized officer.

If the well is productive, the access road will be rehabilitated or brought to Resource (Class III) Road Standards within 60 days of dismantling the rig. If upgraded, the access road must be maintained at these standards until the well is properly abandoned. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

Locati	tion of Braduction Englisher	
	tion of Production Facilities:	
a.	On-site facilities: current production equipment includes 4 - 400 barrel tanks, 1 seperator and 1 heater/t	rea
b.	Off-site facilities: none	
c.	Pipelines: none	

All site security guidelines identified in 43 CFR § 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed, it will be located on lease within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and/or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provisions of 43 CFR § 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1½ times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR § 3162.7-3 and Onshore Oil and Gas Order No. 4.

Production facilities on location may include a lined or unlined produced water pit as specified in NTL-2B. If water is produced from the well, an NTL-2B application must be submitted.

5.	Location and Type of Water Supply:
	All water needed for drilling purposes will be obtained from (describe location and/or show on a map):
	The Green River - to be pumped from river at the Ruby Ranch
	5 miles to the South from insignation ditch per
	A temporary water use permit for this operation will be obtained from the Utah State
	Engineer in Price, Utah at (801) 637-1303
	Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.
6.	Source of Construction Material:
	Pad construction material will be obtained from (if the source is Federally owned, show
	location on a map): pad exists and will only need some
	minor smoothing
	The use of materials under BLM jurisdiction will conform to 43 CFR § 3610.2-3.
7.	Methods of Handling Waste Disposal:
	Describe the methods and locations proposed for safe containment and disposal of waste material, e.g. cuttings, produced water, garbage, sewage, chemicals, etc.
	The reserve pit will be lined with (native material, bentonite, synthetic material): * * to be determined by Rich McClure after field inspection
	Trash containers will be hauled to dump, field toilets
	will be provided
	The reserve pit will be located: 35 feet east of the well head
	, and the pit walls will be sloped at
	no greater than to 1.
	The second pit shall be leasted in anti-material, with at least EOV, of the pit values
	The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pit will be fenced before
	drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall
	remain until the pit is dry. As soon as the reserve pit has dried, all areas not needed
	for production will be rehabilitated.
	Trash must be contained in a trash cage and hauled away to an approved disposal site
	as necessary but no later than at the completion of drilling operations.
8.	Ancillary Facilities: 3 house trailers for supervisors
	plus toolpushers house

9.	Well Site Layout -depict the pit, rig, cut and fill, topsoil, etc. on a plat with a scale of at least 1" = 50'.
	All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR § 3162.6.
	Access to the well pad will be from: existing road to the south
	The blooie line will be located: N/A, at least 100 feet from the well head.
	To minimize the amount of fugitive dust and spray escaping from the blooie pit, the following blooie line deflection method will be employed: N/A
10.	Plans for Restoration of the Surface:
	The top inches of topsoil material will be removed from the location and stockpiled separately on: _topsoil is already stockpiled on the Northwest corner of the location
	Topsoil along the access road will be reserved in place adjacent to the road.
	Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.
	The reserve pit and that portion of the location not needed for production will be reclaimed.
	Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
	All road surfacing will be removed prior to the rehabilitation of roads.
	Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.
	All disturbed areas will be recontoured to replicate the natural slope.
	The stockpiled topsoil will be evenly distributed over the disturbed area.
	Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.
	Seed will be broadcast or drilled between and, or at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

	be determined by BLM
The a	abandonment marker will be one of the following, as specified by BLM: 1) at least four feet above ground level,
	2) at restored ground level, or
	3) below ground level.
In an	y case the marker shall be inscribed with the following: operator name, le
	per, well name and surveyed description (township, range, section and eit
quan	er-quarter or footages).
Δddi	
	tional requirements:
Addi	tional requirements:
	•
Surfa	ace and Mineral Ownership: BLM
Surfa	
Surfa	ace and Mineral Ownership: BLM Information:
Surfa	ace and Mineral Ownership: BLM Information:
Surfa	ace and Mineral Ownership: BLM Information: Archeological Concerns:
Surfa	ace and Mineral Ownership: BLM Information: Archeological Concerns: The operator is responsible for informing all persons in the area who
Surfa	ace and Mineral Ownership: BLM Information: Archeological Concerns: The operator is responsible for informing all persons in the area who associated with this project that they will be subject to prosecution
Surfa	ace and Mineral Ownership: BLM Information: Archeological Concerns: The operator is responsible for informing all persons in the area who

and contact the authorized officer (AO). Within five (5) working days, the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the AO to complete an expedited review under 36 CFR § 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

	ened and Endangered Species Concerns:
	e Seasonal Restrictions (yes/no):
	cation Geophysical Testing:
Draina	ge crossings that require additional State or Federal approval
Other:	

13. Lessee's or Operator's Representative and Certification

Representative:				
Name:	Carl I. Hittle			
Title:	Vice President			
Address:	3005 East Long Circle S. Littleton, Co. 80122			
Phone No.:	303-665-4254			
Certification:				
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements make in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed bySARANAN _LAND _COMPANY, INC.				
and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM bond no. UT-0431. This statement is subject to the provisions of 18 U.S.C. § 1001 for the filing of a false statement.				
Carl	2. H allo			
Signature VICE - PRES	17-4-30-92			
Title	Date			

C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

<u>Building Location</u>- Contact the Resource Area, Natural Resource Protection Specialist at least 48 hours prior to commencing construction of location.

<u>Spud</u>- The spud date will be reported to the Resource Area Office 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

<u>Daily Drilling Reports</u>- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the District Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

<u>Sundry Notices</u>- There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

<u>Drilling Suspensions</u>- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

<u>Undesirable Events</u>- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the Resource Area in accordance with requirements of NTL-3A.

<u>Cultural Resources</u>- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

<u>First Production</u>- Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Resource Area Office. The Resource Area Office shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the District Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the District Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomical is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

<u>Produced Water-</u> Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted to the District Office for approval pursuant to NTL-2B.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the District Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

<u>Plugging and Abandonment</u>- If the well is completed as a dry hole, plugging instructions must be obtained from the District Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Office, within thirty (30) days following plugging and abandonment of the well. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

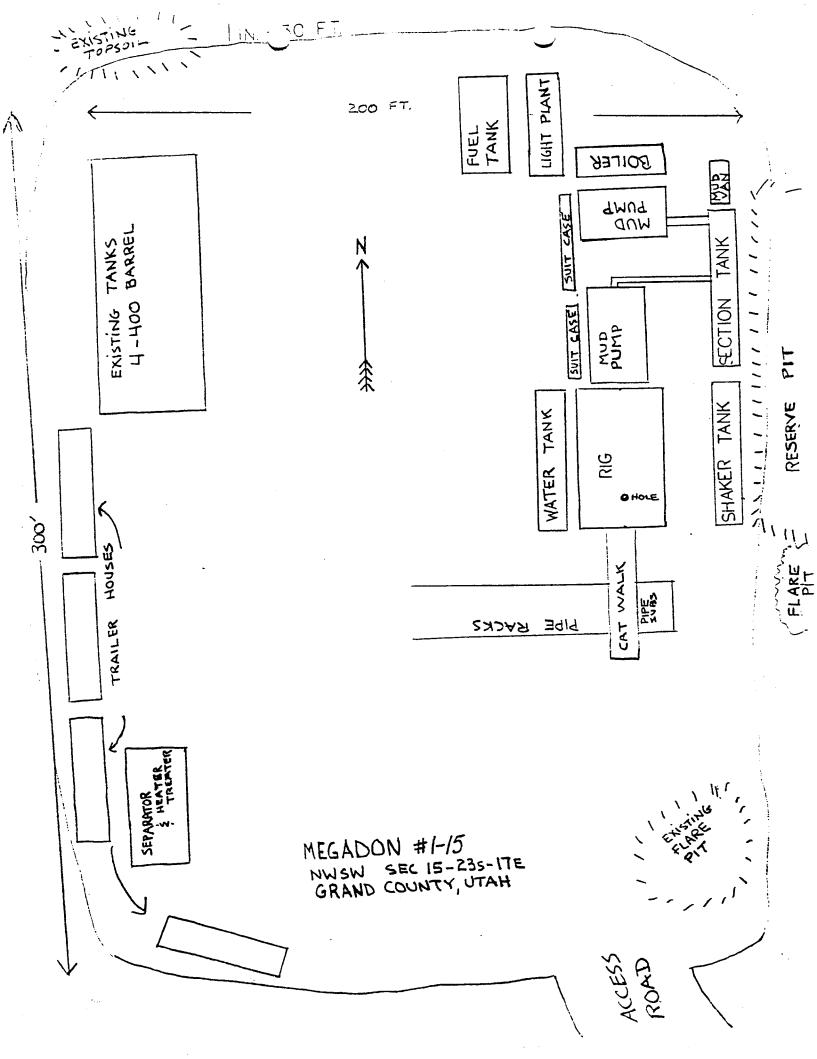
Notify	of the Resource Area, at	for the following:
	2 days prior to commencement of dirt work, constru	ection or reclamation;
	1 day prior to spudding;	
	50 feet prior to reaching surface and intermediate ca	asing depths;
	3 hours prior to testing BOPE;	
	12 hours prior to reaching kickoff point depth (if app	plicable).

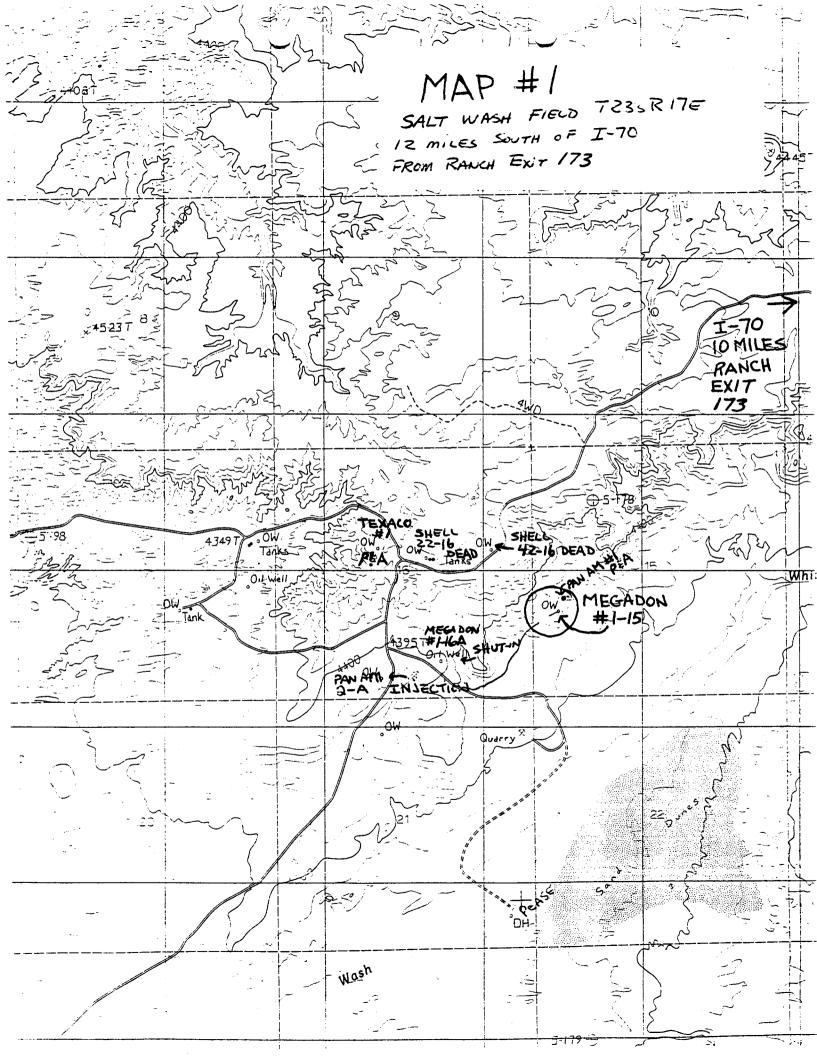
If the person at the above number cannot be reached, notify the Moab District Office at (801) 259-6111. If unsuccessful, notify one of the people listed below.

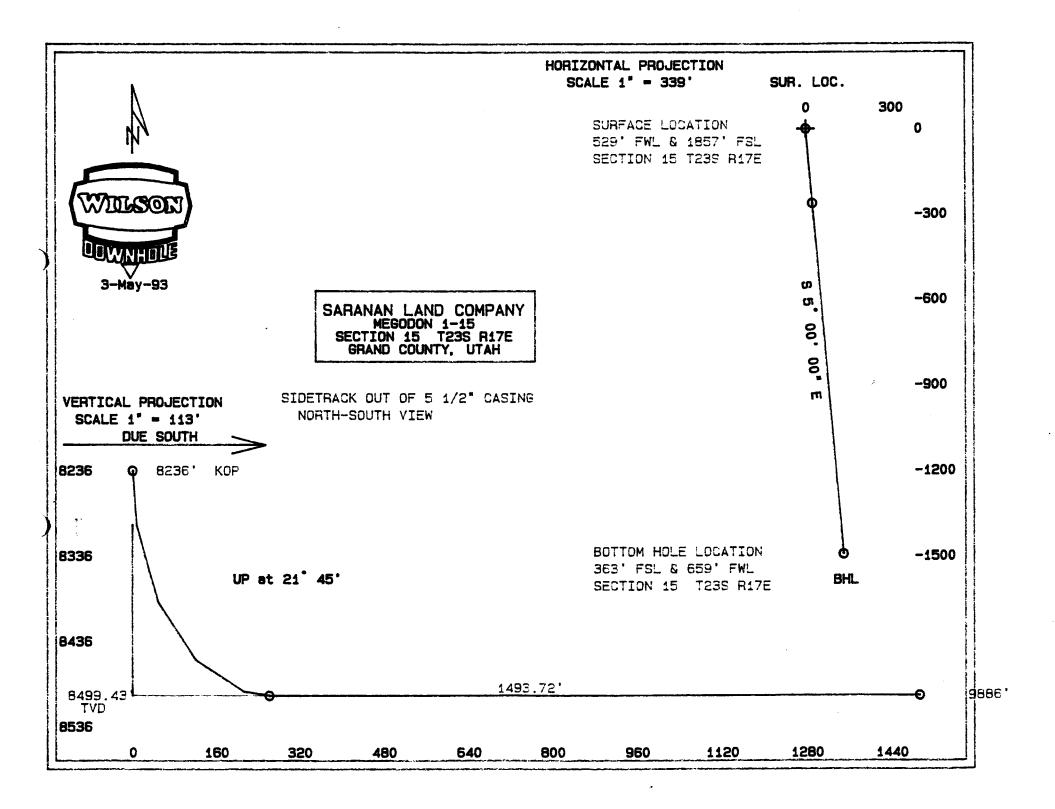
Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer

Office: (801) 259-6111 Home: (801) 259-2214







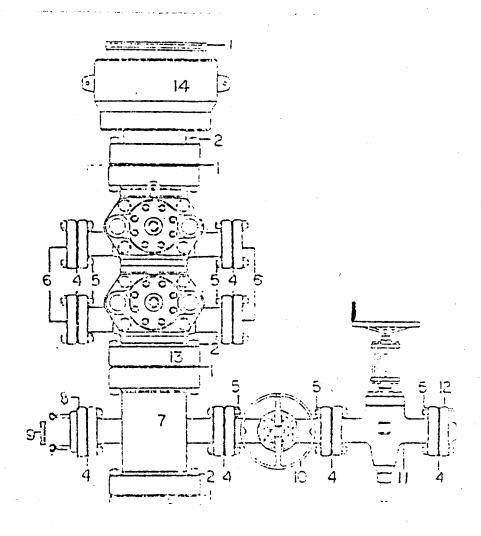
PROPOSAL FILE = SARANAN

Position of well relative to reference point, Latitude = 1857.00 feet Departure = 529.00 feet Vertical Section Direction = 175° 0' 0"

	ИD	ŦVĐ	1	ncl	in.	Surve	y D	ir.	N/S	E/W	Vert Sect	Closure	N/S	E/W	DLS	T.F.	
					Sc	Deq				rface pos	Dist	Dist	from Refe	cence pos		Dir.	
*	8236.00	8236.00	0	0	0	175	0	0	.00	.00	.00	.00	1857.00	529.00	21.75	0	*
	8300.00	8299.37	1.3	55	12	175	0	()	-7.71	.67	7.74	7.74	1849.29	529.67	21.75	0	
	8400.00	8389.61	35	40	12	175	0	0	-49.23	4.31	49.42	49.42	1807.77	533.31	21.75	0	
	8500,00	8457.98	57	25	12	175	0	0	-121.12	10.60	121.58	121.58	1735.88	539.60	21.75	0	
	8600,00	8494.74	79	10	12	175	0	0	-213.12	18.65	213.93	213.93	1643.88	547.65	21.75	0	
*	8649.79	8499.43	90) (0	175	0	0	-262.43	22.96	263.43	263.43	1594.57	551.96	.00	0	*
	8700.00	8499.43	90) (0	175	0	0	-312.44	27.34	313.64	313.64	1544.56	556.34	.00	0	
	8800.00	8499.43	90) (0	175	0	0	-412.06	36.05	413.64	413.64	1444.94	565.05	.00	0	
	8900.00	8499.43	90	0	0	175	0	0	-511.68	44.77	513.64	513.64	1345.32	573.77	.00	0	
	9000.00	8499.43	90) (0	175	0	0	-611.30	53.48	613.64	613.64	1245.70	582.48	.00	()	
	9100,00	8499.43	90) (0	175	0	0	-710.92	62.20	713.64	713.64	1146.08	591.20	.00	0	
	9200.00	8499.43	90) (0	175	0	0	-810.54	70.91	813.64	813.64	1046.46	599.91	.00	0	
	9300,00	8499.43	90) (0	175	0	0	-910.16	79.63	913.64	913.64	946.84	608.63	.00	()	
	9400.00	8499.43	90) (0	175	0	0	-1009.78	88.34	1013.64	1013.64	847.22	617.34	.00	0	
	9500.00	8499.43	90) (0	175	0	0	-1109.40	97.06	1113.64	1113.64	747.60	626.06	.00	0	
	9600.00	8499.43	90) (0	175	0	0	-1209.02	105.78	1213.64	1213.64	647.98	634.78	.00	0	
	9700.00	8499.43	90) (0	175	0	0	-1308,64	114.49	1313.64	1313.64	548.36	643.49	.00	0	
	9800,00	8499.43	90) (0	175	0	0	-1408.26	123.21	1413.64	1413.64	448.74	652.21	.00	0	
*	9885.79	8499.43	90) (0	175	0	0	-1493.72	130.68	1499.43	1499.43	363.28	659.68	.00	0	*

999 18th Street • Suite 3300 • Denver, Colorado 80202 • (303) 292-9930







FILE

RECOMMENDED DRILLING FLUIDS PROGRAM

PREPARED FOR
MR. FRANK BATZER
SARANAN LAND COMPANY, INC.
3005 E. LONG CIRCLE S.
LITTLETON, COLORADO 80122

MEGADON ENERGY RE-ENTRY

8,480' TVD HORIZONTAL LEADVILLE TEST
SALT WASH 1-15
SECTION 15, T23S, R17E
GRAND COUNTY UTAH

PREPARED BY
TOM WHEELER
TECHNICAL SERVICE MANAGER
MAY 12, 1993



RECOMMENDED DRILLING FLUIDS PROGRAM

INTERVAL (feet)	MUD WEIGHT (1bs/gal.)	VISCOSITY (sec/qt.)	FLUID LOSS (ml/30 min.)
8,250' - Total Depth	8.6 - 8.8	32 - 34	15 cc's/less

Mud Up: After dressing the cement plug, displace the hole with fresh water. Treat the calcium contamination to less than 150 mg/l with Soda Ash. Mix 12-15 ppb Uni-Gel along with 0.5 ppb active (2.0 ppb liquid) Uni-Drill to achieve a 34-36 sec/qt viscosity. Raise the pH to between 9.5-10.0 with Caustic Soda through a chemical barrel, and add Uni-Pac to reduce the fluid loss to below 15 cc's/30

This system contains a very low amount of solids and the PHPA polymer is quite shear thinning. Maintain the Uni-Drill and Caustic Soda concentrations as desired with regular daily additions of each. If the mud becomes thick, additional Uni-Drill should be added to help thin it. If the mud becomes grainy or the cuttings become mushy and stick together, add more Uni-Drill.

The Uni-Drill PHPA polymer will exhibit a viscosity hump at a concentration of approximately 0.75 ppb. This hump will be more pronounced when the mud contains drill solids, as the polymer attempts to flocculate the solids at this concentration. If the viscosity begins to increase, and the cuttings are looking dry and brittle, add more Uni-Drill. Again, the physical appearance of the cuttings at the shaker is the best indication of the amount of polymer in the system.

The fluid loss should be between 13-15 cc's/30 minutes naturally, but it can be reduced, if desired with additions of Uni-Pac.

Angle Build Considerations: Kick off the horizontal build section. The most difficult section of the hole to clean will be between 35°-65°. We recommend adding XC Polymer to increase the initial gel strengths to 8 lbs/100 ft² or better, if necessary. Experience shows that this practice will prevent the cuttings from sliding down to the low side of the hole, and thus greatly enhances hole cleaning.

Sweep the hole with a high viscosity pill before bit trips. Watch the cuttings returning at the shaker closely for volume and size. If the size reduces or the amount of cuttings returning drops off, the hole is probably not being cleaned satisfactorily. This mud system will encapsulate the cuttings and return them at the shaker hard and sharp with a slick polymer coating when the Uni-Drill concentration is sufficient.



DEPTH INTERVAL 8,250' - Total Depth CONTINUED

Solids Control Equipment: The success and cost of a PHPA mud is very dependent on the solids control equipment employed. The mud has a low desirable solids content, so the mud weight will be low when first built. The Uni-Drill polymer must coat all of the solids in the mud, as well as be available for wellbore stabilization and cuttings encapsulation. If the solids concentration of the mud is allowed to increase, the polymer usage will increase dramatically and the mud weight will rise. This will result in much higher daily maintenance costs, possible lost circulation and decreased ROP.

It is for these reasons that we recommend a specific solids control program be employed. We recommend the use of a linear motion "flowline cleaner" type shale shaker, with the finest mesh screens possible. Use of 200-225 mesh screens will preclude the use of a mud cleaner, so the only other equipment needed will be a good, efficient desilter and a high speed centrifuge. These two pieces of equipment will remove the colloidal size solids, which will help maintain a low mud weight. We have successfully maintained 8.6-8.7 ppg mud weights for an extended amount of time with this setup.

Corrosion Control: We recommend the use of a general corrosion inhibitor in this interval. KD-40 is a phosphonate based ester which has proven performance in PHPA/KOH muds. Maintain 100-150 ppm excess in the system at all times for best results.



RECOMMENDED DRILLING FLUIDS PROGRAM

INTERVAL (feet)	MUD WEIGHT (1bs/gal.)	VISCOSITY (sec/qt.)	FLUID LOSS (ml/30 min.)
0' - 8,250'	8.6 - 8.8	28 - 32	No Control

Re-enter the well with brine water. Sweep the hole regularly with Salt Gel pills to remove dense metal shavings from the well.



ON OF OIL. GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340 801-359-3940 (Fax)

June 1, 1993

Megadon Energy Corporation 175 South West Temple, Suite 20 Salt Lake City, Utah 84101

Gentlemen:

Federal 1-15 Well, 1857 feet from the south line, 529 feet from the west line, NW 1/4 SW 1/4, Section 15, Township 23 South, Range 17 East, Grand County, Utah

Pursuant to Utah Code Ann. § 40-6-6, (1953, as amended) and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to reenter and horizontally drill the referenced well is hereby granted. The following specific actions are necessary to fully comply with this approval:

- Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and 1. Gas Conservation General Rules.
- Notification within 24 hours after drilling operations commence. 2.
- Prompt notification prior to commencing operations, if necessary, to plug 3. and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
- Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring 4. or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.



Page 2 Megadon Energy Corporation Federal 1-15 Well June 1, 1993

As requested, information on the well will be held confidential in accordance with Utah Admin. R. 649-2-11. This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-019-30752.

Sincerely,

Associate Director, Oil and Gas

ldc Enclosures

cc: Bureau of Land Management, Moab

J.L. Thompson

WOI1

Salt Lake City, Utah 84101

Bus. Tel: (801) 359-3575 Res. Tel: (801) 295-1870

Suite 20; 175 South West Temple

CORPORATION

DECENAL

President: W. Don Quigley

Vice President: Margaret Quigley

Secretary: Sherrill L. Bateman

JUN 0 1 1993

DIVISION OF CUICAS & MINIMO

May 28, 1993

Bureau of Land Management P.O. Box 970 Moab, Utah 84532 Attn: Erik Jones

Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attn: James Carter

Re: Remedial Work on Salt Wash #1-15 Well Section 15-23S-17E. Grand County, Utah

Dear Sirs:

As you know, we (Megadon and Saranan) are doing some remedial work and drain hole drilling on the captioned well. Due to the situation in the Salt Wash field concerning other lease ownerships and since the field is not unitized, we would like to keep the information generated by this work and reported to you confidential for at least 90 days after the work has been completed.

We appreciate your security on this information.

Sincerely yours

W. Don Quig

President

WDQ/sb

cc: Carl Hittle

Michael O. Leavitt Governor Ted Stewart Executive Director

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340 801-359-3940 (Fax) James W. Carter Division Director 801-359-3940 (Fax) 801-538-5319 (TDD)

October 22, 1993

Mr. W. Don Quigley Megadon Energy Corporation 175 South West Temple, Suite 20 Salt Lake City, Utah 84101

Reports of Operations - Megadon 1-15 Well, Sec. 15, T. 23 S., R. 17 E., Grand Re: County, Utah, API No. 43-019-30752

Dear Mr. Quigley:

On June 1, 1993, the Division of Oil, Gas and Mining gave approval to your company to re-enter and horizontally drill the referenced well. Since that time we have not received any drilling reports or completion information, despite the fact that several of our employees have been to the well location and indicate that work has been completed.

It is requested that Megadon respond immediately to this letter by submitting all reports required by the Oil and Gas Conservation General Rules, including spud report (R649-3-6) and Well Completion Report and Log (R649-3-21). A Sundry Notice form and Well Completion Report form are attached for your convenience. Your assistance in this matter is appreciated.

Sincerely,

Don Staley

Administrative Manager, Oil and Gas

ldc

CC:

R. J. Firth

D. M. Eatchel

WOI138



State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 801-538-5340 801-359-3940 (Fax) 801-538-5319 (TDD) Suspense DTS H=H=93 12-29-93

October 22, 1993

11/29/93 - Nothing received as of yet from madedon. Per RIF, Frank is trying to get data from Bun. Bun is pressing megadon for data. Drs

Mr. W. Don Quigley Megadon Energy Corporation 175 South West Temple, Suite 20 Salt Lake City, Utah 84101

Re: Reports of Operations - Megadon 1-15 Well, Sec. 15, T. 23 S., R. 17 E., Grand County, Utah, API No. 43-019-30752

Dear Mr. Quigley:

On June 1, 1993, the Division of Oil, Gas and Mining gave approval to your company to re-enter and horizontally drill the referenced well. Since that time we have not received any drilling reports or completion information, despite the fact that several of our employees have been to the well location and indicate that work has been completed.

It is requested that Megadon respond immediately to this letter by submitting all reports required by the Oil and Gas Conservation General Rules, including spud report (R649-3-6) and Well Completion Report and Log (R649-3-21). A Sundry Notice form and Well Completion Report form are attached for your convenience. Your assistance in this matter is appreciated.

Sincerely,

Don Staley

Administrative Manager, Oil and Gas

idc

cc: R. J. Firth

D. M. Eatchel

WOI138 Eampliance File

5(7

RECEIVED HOAB DISTRICT OFFICE

SARANAN LAND COMPANY 93 JIN21 AM 10: 49

3005 East Long Circle South Englewood, Colorado 80112 Telephone (303) 741-1585 Fax (303) 770-8525 DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

, par tooti t

10:

BUREAU OF LAND MANAGEMENT

NUMBER:

801-259-2106

FROM:

A. J SEASTUNE

REGARDING:

MEGADON #1-15 DAILY DRILLING REPORTS

DATE:

JUNE 21, 1993

PAGES INCLUDING THIS COVER SHEET:

21

MESSAGE:

ATTACHED PLEASE FIND DAILY DRILLING REPORTS FOR THE FIRST 20 DAYS OF ACTIVITY ON THE MEGADON #1-15 WELL LOCATED IN GRAND COUNTY, UTAH. PLEASE NOTICE THAT THESE REPORTS ARE MARKED 'CONFIDENTIAL - TIGHT HOLE'. WE WOLLD GREATLY APPRECIATE IT IF YOU WOLLD TREAT THESE ACCORDINGLY. 1 WILL SEND YOUR EACH WEEKS REPORTS ON MONDAY FROM NOW ON.

PLEASE GIVE ME A CALL AT 303-790-7870 IF YOU HAVE ANY GLESTIONS.

Mosh 90 Init/Date DM ADM PAO Ping Res Oper Admin Min PERA SRRA GRA SJRA Act Info -**Discuss**

Regards, Seaston

NOV 2 6 1993

DIVISION OF OIL, GAS & MINING gez)

Report BY

TΩ	79	ЯΩ	52	58	5

Win-Rock Drilling Company Daily Drilling Report	
--	--

•					
. 06/17/1993	. 11:08 FROM R	AN GATHERING CO	TO 79085	2585	7-92
		Win-Rock Drilling Daily Drilling Well Name & No.	ng Company	NFIDENTIAL,	7 2
	•	Daily Drilling	Ci	Mind Home	
· .		Wall Name & No. 1	- alt wash 1-1-	TI Sec. L. Th.	23 Kg.
Company_S	ar in the	No 52 Spud 2	T.D.C	R.R.	4
2. Contract	Well Well	NO SE OPINI	as a few de Kingh	es Gala./24Hrs.	
. 3. Days Sin	ce Spud/7 Hou	rs_5 Ten thaFu	61 4 OKB : 47 HICH		
•	. ~ ~~~~~~	mat 24hrs. 41 Fi	ber hr. Z. flut	ORGAL TOD	
s Descant	Overation Ovl	Hook Load 19	MOR A MEDICAL	bedra Lormanion	
	a in case Da	Size,Conn		144.5	
. D. D.R.A.A.	aire (_Stks/MinCi	rc. Pressuro		
• • • • • • • • • • • • • • • • • • • •	. `	GAVA/Min -7/1 Ci	rc. Pressure / Wh	10	•
8. No. 2 P	Jump Size	per min. 2.5 Ann	. Vel./D.C	D.P. 🕺	11
9. Output	COS GPM/BBLS.	per min	. IN QUI	f Ftg. Hrs.	Ft./Hr. Conc
10.	s.n. s	ze/Type Jets		84 42	1/2 1.69
Bit No	.s <u>:</u>				
Bit, No	2				wirle line 21
11 Devisi	1one			Gas	
.	. // 5	4- Trip R	g Serv. Surv.	Circ. 2 Lo	8
	•	- A C	m.4∟ R.U. F	\•D•	
			V VP / GALE	18 20 10 XV 15 X	~ '
13. Drlg.	Fluid/Wt.Z.4	Vis 37 WL 22 Alk.	· 6/1.9chro. KG	lOther	
CITAL	Solids S. L.	BitsFuel	Trucking	Supplies	
14. Costa	/Services	BitsPubl		, Cum/C	опрелу
Wa go:	Supervisi	onRental Equi	pmen (& 001/ = 2-2	Cum	Company
	/deily	cumCompany	//daily_		
15. Tota	1 Daily Cost	Cum. Well	Cos t/8л •	42.F	7-11-
Cum	Rota//2 Cum	Ftg. 293 Cum	. Rep. 2/2 C	Ma' Dahaoy -	
				. Operations & R	emarks
17. Nour	ly Breakdown	1 Shut in well	run wire line	Hods	
		1 - 1 6 15 46	5 **	100.3	
Frot	10/10	1 T I # 3	stols rune wit	e line through s	dly
From	To / 1.50	1 Dr/s			
_	To	MITIAL	-		
Fro	To.	NEIDENTIAL	ft™ brand fax tranamittal : A. g	memo 76/1 fof pages ▶ } From	2-/
	Th (יייועי	4.9	100 7 / 1 / /	- 04

Win-Roop DRILLING COMPANY Daily Drilling Report

6	~	15-	93

	Daily Drilling Report CONFIDENTIAL	Rig 7 4
) (Company Saranah Well Name & No. Saft Wash I le bec. 15 In.	22 Rg. 175
	Contractor W-R Well No.52 Spud T.D.e R.R.	
	Days Since Spud/5 Hours/ Tenths Fuel 6 6am. 54 inches.Gals./24Hrs.	
	Depth & cam. Sya, Ftg/Past 24hrs. 20 Ft. per hr. 1.6 Loggers T.D.	
5.	Present Operation Ork Hook Load 89 WOB RPM 23 Torque Formation	
	- was too a part of the state o	440 5 1
~. ~	No. 1 Pump Size Stks/Min. Circ. Pressure 2 Mon.	me,
	No. 1 Pump Street Street Proposition 2 Man	native D-C , X
	No. 3 Pump Size Stks/Min. 22 Circ. Pressure / 53	
	Output /a 9 GPM/BBLS. per min. 2-5 Ann. Vel./D.C. D.F. 22	
10.		
	Bit No. 5 3/825 41/2 26351	
	Bit. No. 2 Seest	-
	De via tion49.50 842/	
ر.	Hours/Drlg 1/2 Repair 2 Trip/ R. Rig Serv. 1/2 Surv. Circ. Log	
	P.U./Dn. D.C./D.P. Run Cag. Cmt. R.U. R.D. Move	
13.	Drig. Fluid/Wt. 8-9 Vis 25 WL P.6 PV & YP // Gels /3 PH/0.0 FC 2 Sa	
	CL25 Solids 2.8 LCM a Ca Zo Alk. Chro. KCL Other	
14.	Costs/Services Bits Fuel Wtr. Trucking Supplies	
•	Wages Supervision Rental Equipment & Co./daily Cum. /Com	3 3 7
	./dailycumCompany/dailyCumCom	
16	Total Daily Cost Cum. Well Cost/Hr. Cost Day	161 101 1
1).	Cum. Rot. 82% Cum. Ftg. 240 Cum. Rep. 2/2 Cum. Daywork 375	
	One motions & Pome	From Co. 2/44
17.	nourly bleakdown	E
	From Lin To 8:00 1 Repair drum dribe Chain	Smitte ~ / ~
	From 108:3e/ RS.	
,	From To 5:10 Jump through string Bill-wise like	brand fax transmittal Annan 70-8525
•	From To 5:30 Rosse 30' tu betilan The	3 1 4 4 1 1 V
	From Tofist Alla	Post*
	From To Contract T.D. 8	
	TOTAL MERCO CONTRACTOR	

TO 7985

Win-Rock Drilling Company Daily Drilling Report

	COM A Hora	
, - -	CONTINUE Well Name & No. Salt Wash 1-15-944. Tn. 23 Rg. / 7	
2.	Contractor Well No 52 Spud @ T.D. R.R. e	
3.	Days Since Spud / Hours Tenths Fuel & 6am. 7 inches. Cals. /24Hrs.	
4.	Depth @ 6am. gy71 Ftg/Fast 24hrs Ft. per hr Loggers T.D.	
5.	Present Operation Regard Hook Load 89 WOB 74 RPM 230 Torque Formation	
6.	B.H.A. (169 D.C. & D.P., Size, Conn. brill, & a. down hele motor, flat sub. Ker & D. C. XO	
7.	No. 1 Pump Size Stks/Min. Circ. Pressure	
	. No. & Pump Size Stks/Min. 72 Circ. Pressure 14.50	
9:	Output/09 GPM/BBLS. per min. Ann. Vel./D.C: D.P. 2.50	
	O. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con	ıd .
	mill Bit No. If all Concere	•
	Bit, No. 2	-
11.	Deviation e e e e work majort 72. Hours/Mg. 3/2 Repair 12 Trip/2/2 Rig Serv. Surv. Circ. Log work majort 72	bes.
رٺ	Hours / 3 /2 Repair /2 Trip /2 /2 Rig Serv. Surv. Circ. Log	' -
7	P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move	
. 12	Drlg. Fluid/Wt. 8.9 Vis Fo WI. 1.2 PV 7 YP 8 Gels 1/ PH/1-0 FC 2 Sd. 72	.
حمد الله	CIAS Solids 2-8 LOM o Ca 20 Alk. S/S Chro. KCL Other	-
1/	. Costs/Services Bits Fuel Wtr. Trucking Supplies	
	Wages Supervision Rental Equipment & Co./daily Cum. /Comp	8
	./daily_cumCompany/daily_CumComp	1
7.4	Fortel Daily Cost Cum. Well Cost/Hr. Cost Day	rand
ي ک	Cum. Rot. 70 Cum. Ftg. 220 Cum. Rep. /2 Cum. Daywork 24 B	d fax transmittal
7.	7. Hourly Breakdown Operations & Remar	TESTILLE.
_	From 6:00 To 1:00 W. D. magnet	
	From Lier To Sill T To H W/ magnet MFIDEN HOLE	memo X
	From To 5.30 work magnet at battered	7671
<u></u>	From 5:30 To 9:10 / Chain out of help recover sand five Gasing	s of pages
	From 9:10 To [W do magnet Pells mill & motor	1 38
	From 1:00 To 4:30 mill on Junk raise Vis tu 50	1
	sport BIS:31 6:01 Repair dram drive Chain Contract T.D.O	
H	Shore price of the state of the	

•	86/14/1993 18:28 FRON RE JATHERING CO TO 7986) 6-12-9-3
4	Win-Rock Drilling Company Daily Drilling Report Company Saren as Well Name & No. Salt Wall Hose. If Th 23 Rg/7 2. Contractor W-R Well No 52 Spud e T.D.e R.R. e 2. Days Since Spud en Hours W Tenths Fuel & Sam of inches Cale (2/Who
٠٠, بري.	Company Sarenes Well Name & No. Salt wash H Toec. 15 Th 23 Rg/7
<i>:</i> •	2. Contractor W-P Well No 52 Spud e T.D.e R.R. e
	3. Days Since Spud 12 Hours 15 Tenths Fuel & 6am 25 inches. Cals. /24Hrs.
	4. Depth @ 6am. 84/4 Ftg/Past 24hrs. 24 Ft. per hr. 1.77 Loggers T.D.
•	5. Present Operation get had Hook Load 87 WOB 8 RPM 230 Torque Formation
	6. B.H.A. Sam D.C. & D.P., Size, Conn. Length 20.29
	7. No. 1 Pump Size Stks/Min. Circ. Pressure
	8. No. 2 Pump Size 4/4/X Stks/Min. 72 Circ. Pressure / Lord
	·
	9. Output /// GPM/BBLS. per min. 2-5 Ann. Vel./D.C. D.P.
	10. S.N. Size/Type Jets. IN OUT Ftg. Hrs. Ft./Hr. Co
	Bit No. 3 8275 8460 185 46 4.02
	Bit.No. 2
	11. Deviation e e twork on wirk
_ \	2. Hours/Drlg./3/2 Repair_ Trip 4 Rig Serv. Surv. Circ. Lame out mud
	P.U./Dn. D.G./D.P. Run Cag. Cut. R.U. R.D. Move Move 2/2
•	13. Delg. Fluid/Wt. 85 Vis 28 WL/201 PV 8 YP 5 Gelo 24 PH 98 FC 2 Sd. Nil
	Cle Solids 2-1 LCM O Ca 20 Alk. Chro. KCL Other
	14. Costs/Services Bits Fuel Wtr. Trucking Supplies
	Wages Supervision Rental Equipment & Co./daily Cum. /Company
	./dailycumCompany/dailyCumCompany
	15. Total Daily Cost Cum. Well Cost/Hr. Cost Day
•	Cum. Rot. 2 Cum. Ftg. 209 Cum. Rep. O Cum. Daywork 303 Boiler
	Fronting to 7.30/ OY/6
	From 7:30 To 3:30 / Chain out
•.	mal - ila i al in all the land by day a stine and Tanh maken
<u>ب</u> ر	From To CONFIDENTIAL TO CONFID
•••	From To /
	116
•	Report BY Contract T.D.g

•	•	•						9
	0/1993 10:38 Š	FROM RI BI	RTHERING CO	Best II	TO 798 .50 To 798	5 nsmittal memo	P . 6	· /
6-10-9	3		Win-Rock Dri		- Draing lax trai	From		!
			Daily Drill	ing Co. S	7	00. 7	lin fact	Orioli
•				Dept.	avenam	Phon	501-1	222
	ompany Sar				190-85	25 Fax#		
/::) : 2. Co	on tractor W	CWell No.	Spud. @	Con a grown		on animalia serie anno		·
	ا منتاب جاس	a 10 Hours	Stenths 69	Fuel 6 6am	inohei	.Gals./241	irs. 28	29
	4 6 6am 8	77/Ftg/Past	24hrs. 8	Ft. per hr	Lo	ggers T.D.	JAIN	
' 5. P	resent Opera	ion Wook Up	Hook Load	88 wor <u>3-7</u>	RPM230Tor	ine EM	EHT!	
,	11 A S Q-40D	.c. & D.ES	ize,Conn.	•	<u> </u>	COMPIN	HOLL	
, 0. E	repent Operation of Pump Since 2 Pump Since	PAH S	x8 ks/Min. 78	Circ. Press	sure / 100	11647		
7. F	No. 2 Pump Si			Cinc Pres				
8. 1	No. 2 Pump Si	z.eS:	CKS/MIN	/5			פר	
9.	Output <u>85</u> .G	IM/BBLS. Per	milit.					
10.	s.	N. Size/	Type Jet	•		Ftg.		t./Hr. Cond
	Bit No. 1_S	me_		<u> </u>	75	76	J 4	
:	Bit.No. 2							
		0 00	7 20 - W	<u> </u>	e	<u> </u>	Shutdown	rig 115 m
140	Deviation 22 Hours/Drlg.	L Bannis	Trip85	Rig Serv.	Surv. 1	, 2 Circ. <u>·</u>	Run WW	- June Josep L
	P.U./Dn. D.C	TE REPAIR	Con	Cmt. R	.U. R.D	. Move		
	P.U./Dn. D.C Drlg. Fluid/	، بمبیده ۱۰۵۲. ۱۲۵	29 12 8.	ov 10 vp 2	Calus Side	PH / 0.1 FC	2 Sd.	Nil
13.	Drig. Fluid/	Wt. O & V15	7 WUJ-101	3 1 0	vet.	Other		
:	cr_34/80lid	\$ (12 ICM U		Ø.U				
14.	Costs/Service	esBits		_Wtr.				
	WagesS	pervision	Rental Eq	uipment & C	o./daily	Cum	/Compan	У
<i>i</i>	/dai	ycum.	Compa	ny .	./daily	Cum	Compan	У
15	Total Deily	Gost	Cum. Well_	Coa	t/Hr.	Cos t	Day	
٠	20- Pad -3	Cum Fts	/20_cu	m. Rep.	Oum.	Daywork 2	4-25501	ler
•	. Hourly Brea					Operations		
17.	From COT		n:00		•			
•			•				•	
:	From 736 1		but down	12 1 C	Pumpie &	cetures 6	7:42 AM	113 bu
•	From 8.00 T	0.7.301 W	hip out	10 like	Chr. ans	le on a	notor 5	Trip son
		66:00/	24 (4 i	1 sline	SRG gy	na thoo	N . 7
	FromT	• •	0	ONEITH	MIN	<i>V I</i>		and
* * .	FromT			UNIEI	HOLE			
,	. 50			JANE TO		Contrac	t T.E.@	

Jun. 21 '93 10:35	0000 RETICS INC.	TEL 1-303-()972	2	P. 12
•	•	TO 30 2505	6- 8	.01
06/00/1993 09:51	FROM (GATHERING CO	TO 792505	FINENTRAL HOLE	-7 1
6-8-93 14 2525	Win-Rock Drilling	Company	TOPNITAL	u
£40.	Daily Drilling	COW	JOLE JOLE	-
q1	Well Name & No. S	21+ Wash 1-15,998	HT 1.23	Rg 17
Company 5 25	Well No. 5.2 Spud	T.D.0	R.R. @	
2. ContractorK	Daily Drilling Daily Drilling Well Name & No. S Well No. 52 Spud Hours / STenths 73 Fue	1 6 6mm. inches.Gals	/24Hrs	
3. Days Sinco Spud_	Hours All Ide	·		
4. papth e 6mm 822	Sptg/Past 24hrs. 14 Ft. on Rig 4p Whie Inie 83 Hook Load 83		Formation	
5. Present Operation	nok Load 0.5	MORO A WANT TOLDING		
Come D. C.	& D.P.,Size,Conn.			
	Stks/MinCir	c. Pressure	1404-d	
3	AL us stra/Min. XX Cir	c. Pressure /4-00		
8, NO. / 142P COPN	//BBLS. per minAnn.	Vel./D.C	D.P	
- A 31	/m Tas f.#	IN OUT I	ftg. Hrs. F	t./Hr. Cond
10. \$.N.	yc 31769 4/2 243	8215		
Bit No. 7	112	8261 8275.	14 3 -	1.2 27-I
Bit No. 2		ee	wirle i	line Tools-7 h
Deviation		Surv. Gi	re. Log	in the same
	n a war war in in it is	002 17 TOTAL TOTAL	· A beand.	liners furo
P.U./Dn. D.C./	D.P. Run Cag. Cut	R.U K.U K.U	FFC 2 Sd.	Nil
13. Drlg. Fluid/W	D.P. Run Use	7 TP/6 0018 73 113	1 than	•
_ •	- W. All .			
• - •	Rita Kner			मा श्राप्त है ।
	Rental Equip	ment & Co./dallyou	<u> </u>	Co. S
•	Company	./daily	шоомран	25
- 47	Cum, Well	Cost/Hr.	_0050 Day	100 K 18
15, 1001 2011	Cum. Ftg. 14 Cum.	Rep.	V. 4	SS E
	•	Opera	ations & Remark	
17. Hourly Break	11:36 run sala Cyron	springt at	MILL	Fax a
From To	11.38 1 PAN 34 10 10 11	operate CONFIDE	HOLE	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FromTo	3:00 Drill	ine Cura		
, _(57.5) = === 4,0	TOU CHAIN			
1		- Andrew Constitution		I Wall
From To	1:30 Change MAIS In	part v		1 PER
From To	Sim I TEH Lin Fill Hole + RU.	wire-line tools	Contract T.D.C	h-1-2
Report BY	FILL PROPERTY.	•	TOT	AL P. 01

....in-Rock Drilling Company Daily Drilling Report

TEL 1-303-4

n. 21 '93 10:37	0000 RETICS INC.	TEL 1	-303-1 9722	r. 14	
,	τ .		τ	6-6-9:	3
•	in-Rock Dri Daily Dril	illing Company lling Report	<u>ب</u> ۱۳۱۲ :	ENTIALS?	13
Company 4521	Language Well Name & 1 Well No. 52 Spud &	No. 5 alt way	CONFIL	Hn. Rg.	
2. Contractor W-	Well No.52 Spud @	T.	D. 8	R.R. @	
3. Days Since Spu	d 7 Hours/5 Ten ths	Fuel @ 6am. 14	Linches.Gals./24	Hrs ? 97	<u>·</u>
4. Depth @ Gam.	767 Ftg/Past 24hrs.	Ft. per hr	Loggers T.D.		
5. Present Opera	tion 7-12 Hook Load	bo WOB You RPH	TorqueFor	mation Stept	
6. B.H.A.//2/ D.	.C. & D.P.,Size,ConnM	nì/			
7 No 1 Pump Siz	ze <u>flyile</u> Stks/Min. <u> </u>	_Circ. Pressure_	1400		
7. NO.: 1 Tump Sa	zeStks/Min	Circ. Pressure			
8. No. 2 Pump 51	PM/BBLS. per min	Ann. Vel./D.C.	D.	.P	
9. Output	rm/ polas . pol mino	ta IN	OUT Ftg.	Hrs. Ft./Hr.	Cond
	N. Size/Type Je				
Bit No. 1					
Bit, No. 2				Rea 1	
11. Deviation	ee	<u> </u>	8 <u></u>		
_2. Hours/Detg	We Repair / Trip///	Rig ServS	urv Circ	Log	
P.U./Dn. D.C.	./D.PRun Cag	Cmt. R.U.	R.D Move		
	be we will	PV YP Ge	ls PH FC	Sd	
CLEY Solide	S . C LCM O Ca A	k. Chro. 4/7	KCLOther_		
1/ Costs/Service	es Bits Fuel_	WtrTruck	ingSupplies		
. Vages Su	pervisionRental E	quipment & Co./do	ilyCum	/Company	
. /4017	cum. Compe	any,/dai	llyCum	Company	
as motel Datly	Cost Cum. Well	Cost/Hr	Cost	Day	
Ty. Towar series	Cum. Ftg. C	um. Rep.	Cum. Daywork	59 Boiler	
			Operations	& Remarks	
17. Hourly Break		Ant Valo DE	?	Jan	
From Gelff 10	Often 1 18 ports	,		MILL	
From I	USSA Tell William	:11 Chare St	HA CONFID	HOL	
From To	05.30 1 ream 6/4	5 6200	- Hlori		
From T	com The I repair ru The I repair ru The superior rule sup	~			
79 T	a direct mill 12	10 - A Cale -			
	of Cult Och Che	- 15 15 15 15 15 15 15 15 15 15 15 15 15	Contrac	t T.D.e	
Report BY					

6-4-93

259-2004

Win-Rock Drilling Company Daily Drilling Report

•	,	*****		Keper v			CNITIAL		
·	Company Savanan Contractor WR Days Since Spud	Landwell Na	ne & No. 🚤	felt was	ih s	ONFI	5 40148351	Rg. 11E	
2.	Contractor WR	_Well No52 Spr	ng 6	т.1	0.6	116H 1	R.R. 6		
3.	Days Since Spud_	5 Hours /5 Ten	ths //Fuel	e 6am	inches	.Gals./24	Hrs		
4.	Depth & Gam \$26;	ζFtg/Past 24hrs	Ft.	per hr	Log	gers T.D.			
	Present Operation								•
6.	B.H.A./2.6/ D.C.	& D.P.,Size,Co	nn. Milf-	Mill	X-0	mill	FSid;	x-1 ms)
7.	No. 71 Pump Size_	Stks/Min	. <u>///</u> Circ.	Pressurc	900				
8.	No. 2 Pump Size_	Stks/Min	Circ.	Pressure_					
	Ou tpu t 195 GPM/								
10		Size/Type	Jets_	IN	out	Ftg.	Hrs. Ft.	/Hr. Con	đ
	Bit No. 1					·	<u> </u>		
	Bit, No. 2					····			
u.	Deviation@_			de al Isla	Cem	8 Ch	cut tool	<i>J</i> . °	
- <u>-</u> 2.	Hours/Drlg	Repair Trip	7 Rig Se	ervSu	rv.	Circ	Log		
	P.U./Dn. D.C./D.								
13.	Drlg. Fluid/Wt.								
	CLSolids	LCMCa		Chro	KCL	Other_		**************************************	
14.	. Costs/Services_								
•	WagesSuper	visionRent	al Equipmen	t & Co./dai	ily	_Cum	/Company	<u> </u>	
	/daily	cn#•	Company	dail	L.y	CUNE	Hedron's	§.	
15	. Total Daily Cos	t Cum. Ftg.	Well	Cost/Hr		12/1	P-9	· · · · · · · · · · · · · · · · · · ·	
	Cum. Rot	Cum. Ftg	Cum. Rep	. <u>.</u> . <u>O</u>					
17	. Hourly Breakdow	n a	. 1.1	4	_		& Remarks	anto acros	1:14
	From CAmTall		A .	K Trif	2 May	hole. St	(Au) (orthog	1101 900	6 }
	From // 10/2	1 WE One	tere	Chaire	1 ori	/			
	From 4 To 4	Lan do	un Wins	tock Su	1 mi	ll His	Copup 3a	sill peg	14
·	7 5 mg/	1. high	5000		1-80-1	:30 hi	chi-		•
	From 8 Toll:	30 / Alam	3915 -5	741	1.30 2	: W In	in 1/05-1	1 . 6.	y .
	From 1:30 To 12	Ream	2.949 - 69	959	1.05 6	Contract	botton,	pugo Cita	ī
Re	port BY		•						

259-2664 in-Rock Drilling Company Daily Drilling Report

6-2-93 Riz Z

Company Saran ah Well Name & No. 52/+ west 1-15 Sec. 51 F All Rg. /Z
2. Contractor w-R Well No. 52 Spud 6 T.D. CONFIDENTIAL Rg. 17
2. Contractor_W-R Well No. 52 Spud 6 T.D.e CONFIDER RED 6 3. Days Since Spud 3 Hours 15 Tenths Fuel 6 6am. 19 inches Cals. 124Hrs. 428
4. Depth @ fam 8262 Ftg/Past 24hrsFt. per hrLoggers T.D
5. Present Operation Hook Load WOB RPM Torque Formation
6. B.H.A. D.C. & D.P., Size, Conn. 41/2 R.+ Bits 46 XO YO Mule She XO 6.70
7. No1 Pump Size Stks/Min. Circ. Pressure 35 54346 650/65
8. No. 2 Pump SizeStks/MinCirc. Pressure
9. Output GPM/BBLS. per min. Ann. Vel./D.C. D.P.
10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Cond
Bit No. 1896495 4/2 un 8262
na va 2
11. Deviation 8 8 6 6 6 W. o Text = 91/2 12. Deviation 8 8 6 6 765+ 8440(51/2)
11. Deviation 8 Test Stack 51/2 _2. Hours/Drlg Repair Trip_ Rig Serv Surv Circ Log
And the proof of Run Cag Cont. R.U. R.D. Move Death Flow / Inc.
13. Drlg. Fluid/Wt. Lyster WL PV YP Gels PH FC Sd. 645 B4 Drl
CL_Solids_LCM_Ca_AlkChroKCLOther Style Of. I hr-
14. Costs/Services Bits Fuel Wtr. Trucking Supplied Cot in Pump
Wages Supervision Rental Equipment & Co./daily Cum. /Company
./dailycumCompany/dailyCumCompany
15. Total Daily Gost Cum. Well Cost/Hr. Cost Day
Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Fr Boiler
17. Hourly Breakdown Operations & Remarks
From 6: 10 Sid / Nip up & w.o Trike
From To 9:66 Test Stack
From To 11:60 1 make up load baster Lundo CONFIDER
From To say Set in Routed Tiple Month
From To 654 Pell = 27/4 DP
From To/
Report BY Contract T.D.@

5-31-93

Win-Rock Drilling Company Daily Drilling Report

19

2. Contractor Well No. 2 Spud 9 7.D. 8 R.R. 8 3. Days Since Spud Hours Tenths Fuel 8 6am inches Carte Mark 4. Depth 8 6am Ftg/Fast 24hrs Ft. per hr Contract 5. Present Operation Drig many Hook Load WOB RFM Targue Forwation 6. B.H.A. D.C. & D.P. Size, Conn. 7. No. 1 Pump Size Stks/Min. Circ. Pressure 8. No. 2 Pump Size Stks/Min. Circ. Pressure 9. Output CPM/BBLS. per min. Ann. Vel./D.C. D.F. 10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit.No. 2 11. Deviation 8 8 8 8 8 8 8 8 8 2. Hours/Drig. Repair Trip. Rig Serv. Surv. Circ. Log P.U./Dn. D.C./D.P. Run Csg. Cst. R.U. R.D. Move 13. Drig. Fluid/Mt. Vis. Wi. FV. TP Cels. FH FC Sd. CI. Solids LCM Ca Alk. Chro. KCi. Other 14. Costs/Sarvices Bits Fvel Wir. Trucking Supplies Mages Supervision Rental Equipment & Co./daily Cum. /Company 15. Total Daily Cost Cum. Well Cost/Hr Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Deprations & Resarks From 2.00 To 7.00 Edge Rical Pressure After After After After From 2.00 To 7.00 After Fressure After After After After From 2.00 To 7.00 After Fressure After After After After From 2.00 Can. Class Lange Lan	•	Company Sarahah Well Name & No. Salt Wash Sec. / S Tn. 22 Rg. /7
A. Dopth & Cam. Pfg/Past Zahrs. Ft. per hr	2.	Contractor Well No. 52 Spud & T.D. 8 R.R. 8
A. Dopth & Cam. Pfg/Past Zahrs. Ft. per hr	3.	Days Since Spud / Hours / Tenths Fuel & 6am. inches Galet Aline
5. Present Operation Triangle Hook Load WOB RPN Torque Formation 6. B.H.A. D.C. & D.P., Size, Conn. 7. No1 Pump Size	۷.	Depth 6 6am. Ftg/Past 24hrs. Ft. per hr. Colleges T.D. HOLE
6. B.H.A. D.C. & D.PSize, Conn. 7. No1 Pump Size , Stks/Min. Circ. Pressure 8. No. 2 Pump Size Stks/Min. Circ. Pressure 9. Output GPM/BBLS. per min. Ann. Vel./D.C. D.P. 10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit.No. 2 11. Deviation	-	Propert Orangition 244 mg Hook Load Will Boy TIGH
7. No. 1 Pump Size Stks/Min Circ. Pressure 8. No. 2 Pump Size Stks/Min Circ. Pressure 9. Output GPM/BBLS. per min Ann. Vel./D.C D.P. 10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit.No. 2 11. Deviation		₩ = = ♥
8. No. 2 Pump Size Stks/Min. Circ. Pressure 9. Output GPM/BBLS. per min. Ann. Vel./D.C. D.P. 10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit.No. 2 11. Deviation e e e e e 2. Hours/Drlg. Repair Trip Rig Serv. Surv. Circ. Log P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move 13. Drlg. Fluid/Mt. Vis WI. FV YP Cels PH FC Sd. CL Solids LCM Ca Alk. Chro. KCL Other 14. Costs/Services Bits Fuel Wir. Trucking Supplies Wages Supervision Rental Equipment & Co./daily Cum. /Company ./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Deywork Boiler 17. Hourly Breakdown Operations & Remarks From 7. 20 To Fits / Dump Shele Dit + Shevel Stax From 7. 20 To Fits / Dump Shele Dit + Shevel Stax From 7. 20 To Fits / Dump Shele Dit + Shevel Stax From 7. 20 To Fits / Dump Shele Dit + Shevel Stax From 7. 20 To Fits / Dump Shele Dit + Shevel Stax From 7. 20 To Fits / Dump Shele Dit + Shevel Stax From 7. 20 To Fits / Shevel Stax from Shele Dit B.O.F. From 7. 20 To Fits / Shevel Stax from Shele Dit B.O.F. From 7. 20 To Fits / Shew Well Through Chaft From 2. 20 To Fits / Shew Well Through Chaft From 10 1. 20 To Fits / Shew Well Through Chaft From 10 1. 20 To Fits / Shew Well Through Chaft From 10 1. 20 To Fits / Shew Well Through Chaft From 10 1. 20 To Fits / Shew Well Through Chaft From 10 1. 20 To Fits / Shew Well Through Chaft From 20 1. 20 To Fits / Shew Well Through Chaft From 20 1. 20 To Fits / Shew Well Through Chaft From 20 1. 20 To Fits / Shew Well Through Chaft From 20 1. 20 To Fits / Shew Well Through Chaft From 20 1. 20 To Fits / Shew Well Well Head of Allele Well Fits / Shew Well Head of Allele Well Head of Allele Well Fits / Shew Well Head of Al	•	
9. Output GPM/BBLS. per min. Anm. Vel./D.C. D.P. 10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit No. 1 Bit No. 2 11. Deviation	7.	No1 Pump Size
10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit No. 2 11. Deviation	8.	No. 2 Pump SizeStks/MinCirc. Pressure
10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con Bit No. 1 Bit No. 2 11. Deviation	9.	Output GPM/BBLS. per. minAnn. Vel./D.CD.P
Bit No. 1 Bit.No. 2 11. Deviation		•
Bit, No. 2 11. Deviation		•
11. Deviation	•	
2. Hours/Drlg. Repair Trip Rig Serv. Surv. Circ. Log P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move 13. Drlg. Fluid/Wt. Vis WI PV YP Gela PH FC Sd. CL Solids LOM Ca Alk. Chro. KCL Other 14. Costs/Services Bits Fuel Wtr. Trucking Supplies Wages Supervision Rental Equipment & Co./daily Cum. /Company ./daily cum. Company ./daily Cum. /Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 7. 20 To 7. 10 Firs / Dump Shell. Pit & Shele! Sink Pit III		
P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move 13. Drlg. Fluid/Wt. Vis WL PV YP Gels PH FC Sd. CL Solids LCM Ca Alk. Chro. KCL Other 14. Costs/Services Bits Fuel Wtr. Trucking Supplies Wages Supervision Rental Equipment & Co./deily Cum. /Company ./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From find To find / Gimish drillin manse Hale From 7:00 To find / Dump Shale Dit & Shale Dit III From 7:00 To find / Shale Gressure of the well, W.O. Bribe water, L'B.O.P. From 12.00 To find / Glow well Through Chakt From 12.00 To find / Glow well Through Chakt From 12.00 To find / Glow well Through Chakt		
13. Drlg. Fluid/Wt. Vis WL PV YP Gels PH FC Sd. CI. Solids LCM Ca Alk. Chro. KCI. Other 14. Costs/Services Bits Fuel Wtr. Trucking Supplies Wages Supervision Rental Equipment & Co./daily Cum. /Company ./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 6:00 To 7:00 / Finish drilling minuse Hale From 7:00 To 6:00 / Showel Shade From Shale Pit Through Chaft From 7:00 To 6:00 / Showel Shade From Shale Pit Through Chaft From 6:00 To 7:00 / Showel Shade From Shale Pit Through Chaft From 6:00 To 7:00 / Showel Shade From Shale Pit Through Chaft From 6:00 To 7:00 / Showel Shade From Shale Pit Through Chaft From 6:00 To 7:00 / Glow well Through Chaft From 7:00 To 7:00 / Glow well Through Chaft From 7:00 To 7:00 / Glow well Through Chaft From 7:00 To 7:00 / Glow well Through Chaft From 7:00 To 7:00 / Glow well Through Chaft		Hours/Drlg. Repair Trip Rig Serv. Surv. Circ. Log
CL_Solids_LCM_Ca_AlkChroKCL_Other 14. Costs/Services_Bits_Fuel_WtrTrucking_Supplies_ WagesSupervision_Rental Equipment & Co./daily_Cum/Company/daily_cumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCompany/daily_CumCost Day 15. Total Daily CostCum. Well_Cost/HrCost DayCum. RepCum. Daywork_Boiler 16. Hourly Breakdown Operations & Remarks 17. Hourly Breakdown Operations & Remarks 17. Hourly Breakdown Operations & Remarks 17. From 7. 20 To 7. 20 Showel Shale Pit \ Showel Showel Showel Shale Pit \ Showel Sho	•	P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move
Wages Supervision Rental Equipment & Co./daily Cum. /Company ./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 7:00 To 7:00 / Einish drilling make Hale From 8:00 To 9:00 / Shapel Sind From Shale Dit Well From 1:00 To 9:00 / Shapel Sind From Shale Dit Well W. O. Brine water, ("B.O.F. From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft	13.	Drlg. Fluid/Wt. Vis WL PV YP Gels PH FC Sd.
Wages Supervision Rental Equipment & Co./daily Cum. /Company ./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 7:00 To 7:00 / Einish drilling make Hale From 8:00 To 9:00 / Shapel Sind From Shale Dit Well From 1:00 To 9:00 / Shapel Sind From Shale Dit Well W. O. Brine water, ("B.O.F. From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft From 9:00 To 9:00 / Elew well Through Chaft	•	CL Solids LCM Ca Alk. Chro. KCL Other
Wages Supervision Rental Equipment & Co./daily Cum. /Company ./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 6:00 To 7:00 / Einish drilling masse Hale From 7:00 To 8:00 / Dumm shelp Pit & Shakel Side Pit / Port From 7:00 To 8:00 / Shakel Side Pressure of the well, w. O. Brine water, L'' B.O.F. From 8:00 To 7:00 / Elew well From 10:00 To 1:00 / Elew well	34.	
./daily cum. Company ./daily Cum. Company 15. Total Daily Cost Cum. Well Cost/Hr. Cost Day Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 6:00 To 7:00 / Finish drilling masse Hale From 7:00 To 8:00 / Dump Shele Pit & Shavel Sand From 8:00 To 9:00 / Shavel Sand From Shale Pit 1 Let From 9:00 To 9:00 / Blaced Pressure of twell, W.O. Brine water, L'B.O.P. From 9:00 To 10:00 / Elew well From 10:00 To 1:00 / Elew well Through Chale		
Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 6:00 To 7:00 Finish drilling masse Hale From 7:00 To 8:00 Dump shele. Pit & Shovel S Jak From 8:00 To 9:00 Shovel S Jak From Shale Pit W. O. Brine water, L'' B.O.F. From 9:00 To 9:00 Elew well through Chale		• • • • • • • • • • • • • • • • • • • •
Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler 17. Hourly Breakdown Operations & Remarks From 6:00 To 7:00 Einish drilling mause Hale From 7:00 To 8:00 Dump shale Pit & Shavel 5 Jak From 8:00 To 9:00 Shavel 5 Jak From Shale Pit Well, W.O. Brine water, L'B.O.F. From 9:00 To 9:00 Elew well From 1:00 To 1:00 Elew well Through Chale From 1:00 To 1:00 Elew well through the 1:00 Med to 1:00 Med	•	
17. Hourly Breakdown From 6:00 To 7:00 Einish drilling viouse Hale From 7:00 To 8:00 Dump shale lit & Shavel 5 200 From 8:00 To 9:00 Shavel 5 200 from Shale Dit 116 From 9:00 To 9:00 Black Pressure of twell, w. a. Brine water, 6" B.O.P. From 9:00 To 9:00 Elew well From 10:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Elew well through the 10:00 from	.15.	
From 6:00 To 7:00 Einish drilling mause Hele From 7:00 To 8:00 Dump shele. Pit & Shovel 52hd From 8:00 To 9:00 Shovel Sand from Shale Pit 116H From 9:00 To 9:00 Black Pressure of twell, W.O. Brine water, L'B.O.P. From 9:00 To 10:00 Elew well From 10:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Elew well through the 8.0.P.	· .	Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler
From 7:00 To 8:00 Dump shele. Pit of Shovel 53ht Top From 8:00 To 9:00 Shovel Sand from Shale Pit 1 lot From 9:00 To 9:00 Black Pressure of twell, W.O. Brine water, 6" B.O.P. From 9:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Up simple well to pinde up 6" B.O.P.	17.	. Hourly Breakdown Operations & Remarks
From 7:00 To 8:00 Dump shele. Pit of Shovel 53ht Top From 8:00 To 9:00 Shovel Sand from Shale Pit 1 lot From 9:00 To 9:00 Black Pressure of twell, W.O. Brine water, 6" B.O.P. From 9:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Elew well through Chale From 10:00 To 10:00 Up simple well to pinde up 6" B.O.P.	:	From 6:00 To 7:00 / Finish drilling mouse Hale
From 10:10 To 12:00 Glow well through Chek's	•	From 7:00 TO 8:40 / Dump Shele Pit & Shevel Sand
From 10:10 To 12:00 Glow well through Chek's		From 8:NU To 9:00 / Shovel Sand from shale pit 16
From 10:10 To 12:00 Glow well through Chek's		From 7: 10 To give Black Pressure off well, W.O. Brine water, 6" B.O.P.
From To 12:00 Glow well through Cheke		From 9:10 To 10:10 Elew well
Report BY Contract T.D.e. Contract T.D.e.		From 1012:00 Flow well Through Cheks
Report BY 6:00. W-0- 12 78 Tubing Slips Contract T.D.0		From 12:10 To 2:10 unnipple well head + nipple up b" B.O.F
	Rej	port BY Contract T.D.e

RECEIVED HUAB DISTRICT OFFICE

33 THY ST WH 10: 43 AND COMPANY. SARANAN

3005 East Long Circle South Englewood, Colorado 80112 Telephone (303) 741-1595

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Fax (303) 790-8525

TO:

BUREAU OF LAND MANAGEMENT

NUMBER:

801-259-2106

FROM:

A. J SEASTUNE

REGARDING: MEGADON #1-15 DAILY DRILLING REPORTS

DATE

JUNE 21, 1993

PAGES INCLUDING THIS COVER SHEET:

MESSAGE:

ATTACHED PLEASE FIND DAILY DRELLING DEMORTS FOR THE FIRST 20 DAYS OF ACTIVITY ON THE MEGADON #1-15 WELL LOS THAT THESE REPORTS ARE MARKED 'CONFI APPRECIATE IT IF YOU WOULD TREAT THES REPORTS ON MONDAY FROM NOW ON.

11/23

PLEASE GIVE ME A CALL AT 303-7 Frank

e25	sh 90
Х	Init/Oara
DM	
ADM	
PA0	
Ping	
Res	
Oper	
Admin	
Min	
PRRA	
SRRA	
GRA	
SJRA	
Act	
Info	
Discuss	

Here is the information
you requested on Megadon/
Saranan's 1-15 horizontal recompletion in the Salt Wash field. They're supposed to get approval to re-enter, again, or remove the rig in the next souple of weeks.

Hope you can read them.

RECEIVEO MOAB DISTRICT OFFICE

A3 THIN ST WH 10: 48 LAND COMPANY SARANAN

3005 East Long Circle South Englewood, Colorado 80112 Telephone (303) 741-1585 Fax (303) 790-8525

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

NUMBER:

801-259-2106

FROM:

TO:

A. J SEASTUNE

BUREAU OF LAND MANAGEMENT

REGARDING: MEGADON #1-15 DAILY DRILLING REPORTS

DATE

JUNE 21, 1993

PAGES INCLUDING THIS COVER SHEET:

MESSAGE:

ATTACHED PLEASE FIND DAILY DRILLING REPORTS FOR THE FIRST 20 DAYS OF ACTIVITY ON THE MEGADON #1-15 WELL LOCATED IN GRAND COUNTY, UTAH. PLEASE NOTICE THAT THESE REPORTS ARE MARKED 'CONFIDENTIAL - TIGHT HOLE'. WE WOULD GREATLY APPRECIATE IT IF YOU WOULD THEAT THESE ACCURDINGLY. 1 WILL SEND YOUR EACH WEEKS REPORTS ON MONDAY FROM NOW ON.

PLEASE GIVE ME A CALL AT 303-790-7870 IF YOU HAVE ANY GLESTIONS.

Mosh 90 Init/Dat DM ADM PAO Ping Res Oper Admin Min PERA SRRA GRA SJRA Act Info . Discuss

NOV 2 6 1993

DIVISION OF OIL, GAU & MINING

06/18/1993 14131 FROM RAM GATHERING CO

TO 7908525

Win AND DRILLING COMPANY Daily Drilling Report

	Compan <u>y Saraha</u>	Wall No	no 8 No	- 1 iL 1 - 1 mm	COL	HTH	ore	a	
					•	•			•
	Contractor			,					
3.	Days Since Spud//	Hours/5 Ten	thsFuel	6 6an. 4	⊈inches.	Gals./24)	irs,		
	Depth & ham \$595								
5.	Present Operation	Taff Hook	Load gu W	OR 7/ HPM	280 Torqu	leFor	mail:ion_		
	B.H.A . Same D.C.					· · · · · · · · · · · · · · · · · · ·		** . *	
	No. 1 Pump Size .								
8.	No. 3 Pump Size	Stks/Mir	. <u>Zu</u> Circ.	Pressure	155	2-1700			
	Ou tpu t/15 GPM/B								
10.	•	Size/Type							Cond
	Bit No. 5		· ·						
•	Bit No. 2								
	Deviation e							vine like	11/2
۷.	Hours/Drlg-2016 F								
•	P.U./Dn. D.C./D.F								
13.	Drlg. Fluid/Wt.4.	4 V10 36 WI	12.5° PV 7	YP <u>5</u> Ge	1s /3 P	H S. S. FC	2Sd.	· Th_	
	CI/may Solids 2.0								
14.	Costs/Services								
·· ·	WagesSuperv	isionRent	al Equipmen	t & Co./da	ily	Cum.	_/Comp	ny	
•	./daily	cum	Company	/da.	11 <u>y</u>	Cum	Comp	ny	
15.	Total Daily Cost	Cum.	Well	Cost/Hr	•	Cost 1	oay	•	
	Cum. Rot./32/6 C								
17.	Hourly Breakdown		•			rations (
	From 6:00 To 2:3	. / Drla	· .·					•	
		a / Survey	Part with	-	14 a f	Kally 7	50 H	1 35td	5
•	From Tolin	1 Thip a	at		7				
	From To	_/		Post-it* hra	Ind fay trans	mittal memo	7874	Deges 2	1
	From To	-JemENT	IAL	16 A.9		Prom	70/1 # 01	7	-
٠.	From To	OKILIAN		co. Sar	man	Co. Z	Hir Ko	de Oria	Z. '
_	From To	7/247		Fax # 1761	2-2-	Phone Fex #	521	-1222	3
нeт	port BY			110	1529			·	

117-42 16:57 2

FROM RAN GATHERING CO 86/17/1993 11:68

TO	79	08	52	50	5	
----	----	----	----	----	---	--

Win-Rock Drilling Company Daily Drilling Report	
--	--

Company Carrings Well Name &	orilling Company	CONFIDENTIA	7 2
***		COMITA	
Company Carringh Well Name &	No. Salt Wash 1-	15 Sec. 15 In. 2	3_Rg
2. Contractory-K Well No 52 Spud	T.D.	R.R.	
Tentha	Fuel 6 can. 46 12	iches.Gals./kanis	
to accepte/Past 24hrs. 4	// Ft. per hr. 2.//	Toggers T.D.	·····
5 Present Operation Ovis Hook Lo	ed 89 WOB 7 RPM 25	2TorqueFormation_	.,
· · · · · · · · · · · · · · · · · · ·			
7 Maria Pump SizeStks/Min	Circ. Pressuro		
Stka/Min. 7	OCirc. Pressure_/_	(A) (T)	- ·
GPM/BBLS. per min. 24	<u> </u>	D.F	//
A N SINA/TYPE	Jets IN	OUT Ftg. Hrs.	ft./Hr. Conc
Bit No. S. N.	•	84 49/	2 1069
Bit/No. 2			
		<u>e</u>	wire lim 21
11. Deviation e	Str Sarv. Sw	Gas cy. Circ. 2 Log	
11. Deviation Repair Trip	KIE DOLV	P.D. Nove	
P.U./Dn. D.C./D.P. Run Csg.	Cmt R.U	2/2/	
P.U./Dn. D.C./D.P. Run Csg. 13. Drlg. Fluid/Wt. 24 Vis 38 WL/1	PV YP Gel	8 /3 PH // PU /92	
TON A CR 20	Alk. // Chro	KCF Criek	
Bits Fuel	Truck!	ne suppries	
Swiennie in Renta	l Equipment & Co./da:	Lly/Con	(a ber 12
Wages ./deily cumC	ompany/dai	ly Cum. Co	mpany
15. Total Daily Gost Cum. W	T 10 T		Boiler
Cum. Rot. //2 Cum. Ftg. 293	Cum. Rep	Out of the	<u>-</u>
17. Hourly Breakdown		. Operations & Res	
From 6 100 To Zica / Short in u	ver run wire li	e Hods	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s and through	Chone	
From To fail T T H	3 stels rum a	ive line through Ka	117
From Tokida Orla			
From To	IAL		المناف
From To CONFIDENT	Post-It** brand fax transmit	Zi memo 70/1 Yar pages >	-
From To CON	Co. Saranan	ca. Zilin Kocke () ris	20.
Report BY	Dept.	Phone # 57/-/222	
y 1,500 as 1000	Pax# 190-8525	. Figic #	

TOTAL P.81

00	5/16/1993 11:54	FROM RAM BATHERING	S CO	TO 7908525	5 .	1N 6 -	12-9-3	
		Win-Roo Daily n 14 Well Nam	ck Drilling Drilling Re	Company port	NFIDENT	OLE	3	
	Company Saras	AA Well Nam	• 4. No. 52	+ wasn 14	He Sec. /	Tn. 23	Rg. <u>/7</u>	-
2.	Contractor we-	Well No.52 Spu	d •	T.D.e	·····	_R.R. •_		_
		16 Hours 15 Tent						
•	-	74Ptg/Past 24hrs.		•				_
5.	Present Operati	on Circulate Hook	Load 89.Wo	69 RPM 23000	rqueFor	ma tion		_
		. & D.P.,Size,Con						
~ .	* * * * * * * * * * * * * * * * * * * *	Stks/Min.						
•		Stks/Min.						
9.	•	M/BBLS. per min. 2	•					-
10	••	. Size/Type	. -				t./Hr. C	onc
	Bit No.	•	-		<u> </u>	30	.43	-
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bit, No. 2					Pull WA	reline 2	
335 C				•				
•••		RepairTrip						_
	•	D.P. Run Cag. 9.0 Vis 36WL/						
13.		2.8 LCM /) Ca 20		-		<u> </u>	- June	_
		Bits Fue	₹.⁄.					
		ervisionRenta	•				· · · · · · · · · · · · · · · · · · ·	
		oum. C	• , •					
15	Total Daily Go	ost Gum. W	ell	Cost/Hr.	Cost	Day		_
	Cum. Rot. 92	Cum. Ftg. 263	Cum. Rep.	25_ Cua.	Daywork 3	<i>99</i> Boi	ler	
17	. Hourly Breakdo		·	•	Operations			
	Prospine to	L:001 Drill			·•			_
1.	From 4:00 To 6	:00 Rull u		Tools			···	-
		1:00 / Clair	, n	lo, chy an	gle or so	otor,	hipin	_
	From To	:00/ Cercula	le gas	CICK LET 2	262			-
	From To	AITIM	Post-It	brand fax transmitte	al memo 7671 #	Qf pages > 3		_
	From To	MEIDEN	A	yanan	Ca 7 /			-
Rej	port BY	116117	Dept.	- Junan	Phone is 50	1-1222	000	-
N	∴: .	<i>'</i>	Fex #	90-8525	Fex #			

Report BY

6-15-93

•	Daily Drilling Report CONFIDENTIAL	Rig	7	4
1	CONFIDENT HOLE Company Saran au Well Name & No. Saft wash [] Sec. 15 Tn.	22 A	8.4.7	E
2.	Contractor W-R Well No 52 Spud T.D. R.R.	. e		
3.	Days Since Spud/5 Hours/5 Tenths Fuel 6 6am. 54 inches.Gals./24Hrs.			_
	Depth & Cam. Ryay Ftg/Past 24hrs. 20 Ft. per hr. 1.6 Loggers T.D.			
	Present Operation Ork Hook Load 89 WOB RPM 23 Torque Formation			
	B.H.A. 65.14 D.C. & D.P., Size, Conn. 1 4/2 bit, 3/2 down belo motor,			
	No 3 Dum Cina Stra /Nan Cina Brazana	bee .		
	No. 3 Pump Size Stks/Min. 72 Circ. Pressure / (57)	クロナッと	. D.C	y X
	Output/ag GPM/BBLS. per min.25 Ann. Vel./D.C. D.F. 22	2.0	•	
10			Hr. C	ond
	Bit No. 5 3/825 4/12 26331			
	Bit No. 2 SEest			
11.	5 East De viation 49.58 84 2/ 8			_
	Hours/Drlg./1/2 Repair 2 Trip//2 Rig Serv. 1/2 Surv. Circ. Log			
	P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move			_
13.	Drlg. Fluid/Wt. 8-9 Vis 7 C WLP.6 PV & YP // Gels /2 PH/0.0 FC 2. Se	·Z		
	CL25 Solids 2. LCM o Ca 20 Alk. Chro. KCL Other			
14.	Costs/Services Bits Fuel Wtr. Trucking Supplies		- A	
•	Wages Supervision Rental Equipment & Co./daily Cum. /Com	7	100	
	./dailycumCompany/dailyCumCom		20	
15.	Total Daily Cost Cum. Well Cost/Hr. Cost Day	864	100	
	Cum. Rot. 82% Cum. Ftg. 290 Cum. Rep. 2/2 Cum. Daywork ?75	571	30	1
17.	Hourly Breakdown Operations & Roma	Tome 7	S S S S S S S S S S S S S S S S S S S	
	From Lin To 8:14 / Repair drum drive Chain	E E		\Box
	From 108:36/ RS.	nsmi		12
	From To 3:001 Ta. H Change BHA	fax tre	\$	25
1	From To 5:101 pump through string Bill-wipspiline From To 5:30 Roses 30' tu better FDENDER From To 6:101 Dilly CONFIDENCE	ost-R" brand fax transmittal memo	13	30-
	From Tobies Alla Confidence	7	12 ×	2
		80	g 1/18	1

Contract T.D.e

From To / SYla	<u></u>	COMFIDE	bre		Post-R.	Fast /
eport BY		116	Contract	T.D.@-		
P. 01	01	DTHERING CO	ЕКОМ КИМ В	10:04	06/12/1662	
•						

0000

FROM RE JATHERING CO 06/14/1993 10:27

то 7905

TEL 1-303-7

Win-Rock Drilling Company Daily Drilling Report

	CONFITHOLO	
<u>i</u>	CONFIT HOLD Company 50 MAN Well Name & No. 5014 Wash 1-15-904 Tr. 23 Rg. 17	
· ` 2.	2. Contractor Well No. 52 Spud 6 T.D. R.R. e	
3	3. Days Since Spud / Hours / Tenths Fuel & 6am, 7 inches, Cals. /24Hrs.	
	4. Depth @ 6am. Py71 Ftg/Fast 24hrs. Ft. per hr. Loggers T.D.	
. 5	5. Present Operation Regare Hook Load 669 WOB 74 RPM 230 Torque Formation	
6	6. B.H.A. (169 D.C. & D.P., Size, Com. will, X A. dewn hele mater, float sub, Xu. X D.	
7	7. No. 1 Pump Size Stks/Min. Circ. Pressure	
8	8. No. & Pump Size Stks/Min. 72 Circ. Pressure 1450	
. 9	9. Output/09 GPM/BBLS. per min. Ann. Vel./D.C: D.P. 250	
. 1	10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con	đ
	mill Bit No. # why Consume	
	Bit.No. 2	
13	ll. Deviation e e e e w-o. Majnet 71	IKT.
ر نب	2. Hours/1998. 3/2 Repair /2 Trip/21/2 Rig Serv. Surv. Circ. Log	,
.	P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move	
`. 1 .;	13. Drlg. Fluid/Wt. 8.9 Vis 50 WL 1.2 PV 7 YP 8 Cels 1 PH//- FC 2 Sd. 77	
	Class Solids 2-6 LOM a Ca so Alk. She Chro. KCL Other	
. 1	14. Costs/Services Bits Fuel Wtr. Trucking Supplies	
•	Wages Supervision Rental Equipment & Co./daily Cum. /Comp	3
	/dailycumCompany/dailyCumComp	F S
). 1	15. Total Daily Cost Cum. Well Cost/Hr. Cost Day 557	
	Cum. Rot. 70 Cum. Ftg. 220 Cum. Rep. 12 Cum. Daywork 250 B	x tran
, 1	17. Hourly Breakdown Operations & Remar	Smitte
	From To I'M W. O. magnet	d fax transmittal memo
	From to Site 1 T TH W/ magnet	7671
;	From 5-20 To 9:10 Chain out of hele recover soul Piece Cusing	
~~	From 9:10 To [M de magnet Pelle mill & motor	e of pages
	From 1:00 To4:30 mill on Junk raise Vis to 50	4
• .	Frong 36 To 5:30 1 T. A.H. Chain Chain	
· R	Report BY5:36 6:01 Repair dram drive Chain Contract T.D.e	

Contract T.D.@

"Report BY

TICS INC.

. •	36/14/1992 18127 EKOM KE HHHEKIMA CO 10 198()
	Win-Rock Drilling Company Daily Drilling Report CONFIDENTIALS - 9.5 Company Sar 24 24 Well Name & No. 52/+ wash /-/ Sec. 15 Tn. 29 Rg. 17
·	Company Sar 24 24 Well Name & No. 52/+ wash /- 15 fee . 15 In 28 Rg. 17
2.	Contractor Well No. 57 Spud & T.D. 8
3.	Days Since Spud /3 Hours /5 Tenths Fuel & 6am. Cginches.Gals./24Hrs.
4-	Depth & fam. KaziFtg/Past 24hrs. 7. Ft. per hr. /. 16 Loggers T.D.
5.	Present Operation Com Me Hook Load IV WOB 3/ RPM 25 Torque Formation pinkingen
	B.H.A. Seer D.C. & D.P., Size, Conn.
•	No. 1 Pump SizeStks/MinCirc. Pressure
	No. 3 Pump Size 4 1/2 Stks/Min. 22 Circ. Pressure 1600
	Output 109 GPM/BBLS. per min-10.5 Ann. Vel./D.C. D.P. 22/
10	S.N. Sise/Type Jets IN OUT Fig. Hrs. Ft /Hr Cond
	Bit No. 4 35369 41/2 poc 2-16 2460 8431 11 8/12 1.29
	Bit.No. 2
11.	Deviation e e e e wireline 5
	Hours/Drlg. g/, Repair Trip 7 /2 Rig Serv. Surv. Circ. 1/2
	P.U./Dn. D.C./D.P. Rum Cag. Cut. R.U. R.D. Move 60.0 Fishing Tools 1/2
13.	Drlg. Fluid/Wt.g.g Visgs Wt.f.C PV 7 YP 4 Gels / PH.g. SFC 2 Sd. 7
-, ,	CL25 Solids 2 8 LCM & Ca / C Alk. 7/1 Chro. # KGL Other 1501
14.	Costs/Services Bits Fuel Wtr. Trucking Supplies
•	Wages Supervision Rental Equipment & Co./daily Cum. /Company
.•	./daily_cumCompany/daily_CumCompany
	Total Daily Cost Cum. Well Cost/Hr Cost Day
	Cum. Rot. 7 Cum. Ftg. 221 Cum. Rep. 6 Cum. Daywork 727 Boiler
17.	
	From To 10:30 TTH From To 11:4 Pick on Kelly
	From To 2:40 / been en ine line

RGETICS INC. TEL 1-303-7

•		6/14/1993 10				•	ر کهور ا	6	-12-95	•
. *		Company <u>Sal</u>		Win-R Deil	lock Drilli Ly Drilling	ng Company Report	- NEI	DENTI	kig 7	?
	. (Company Sal	- 6h &u	Well No	ime & No.	52/4 Wa	COM	750c.15		7 .
	2. (Contractor L	1-P Wel	11 No.57251	pud @	T	.D.e		R.R. 0	
	3. 1	Days Since (spud_c2_H	ours /5 Ter	thsPue	1 6 6a m	inches.	Gale./24	ira.	
•	5.	Present Ope	ration are	nnal thadarioo	k Load 87	WOB & RPM	230Torqu	ieFor	ma tion	
		B.II.A. <u>≤€m</u> r	. •	•						
	•	No1 Pump			•		_		,	
		No. 3 Pump					_			
		•	-						n	
•		Output /19			•	•				
	10.	•	•	ize/Type	· •				Hrs. Ft./Hr.	Cond
•		Bit No.3		- · · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> 8275</u>	_ 3460	185	46 4.02	
		Bit.No. 2					· · · · · · · · · · · · · · · · · · ·			
	11.	De viation	e			<u> </u>		<u>. e</u>	twork on wi	rle
~	_2.	Hours/Drlg.	/3/2 Rops	ir Tri	p4 Rig	Serv	Sur v	Circ	Charge 442 h	nud
		P.U./Dn., D.	.c./D.P	Run Oss	Cmt,	R.V	R.D	Move_		2
• •	13.	Drlg. Fluid	1/Wt. 85	V18 38 WI	1200 PV 8	YP G	2074 8	H & X FC	2 Sd. Nil	
		CIasi Sol	ds 2-/ L	M / Ca_	2// Alk. 1-0	Chro.	KCT	Other		
	14.	Costs/Serv	•		· .					
		Wages		•					/Company	
•			•		•	•			Company	
• •	15		V	<u> </u>		•)ey	
٠,			•	•					7 Boiler	
	17.	Hourly Brea	•	0				rations (
	_,,	Front In		OYK						
		From 7.7a			2 54	ds Dul	lacite	line !	with of hele	
		From ///Sd	To 3.34 /	Chain	14f :				<i></i>	
٠,	· ···	From 336	rofilm!	Change	out h	und mes	bet wet	ing The	Test moto	
		From					mon	MILL		
		From	ro/_			—— ((MEIDE	HOLE		
. • .		From	•		•		116		h n e	
••	Rep	ort BY	<u> </u>		•	•	•	Contract	1.2.8	

	06/14/1993 10:20	FROM RE JATHERI	ING CO	70	798(-6	P. 04 -16-9-3	3 *
•		Win-Re Dail;	ock Drilling Drilling R	Company apor t	'ino	FIDEN	TIAIF	7	,
	Company C 26:04	Dail;	ne & No. Ca	Andr ia andria	$C^{(i)_{i,j}}$	UT H	OL	8	
	Company of the second	the Maria Name Sm		F WAS	h. 116	860. /	Tn	₹ RE	<u>Z</u>
۷.	Contractor	Well No. 52 Spu	10	т.г			R.R. @		-
		/ Hours (5 Ten							
4.	Depth & fam. Res	Ftg/Past 24hrs.	Ft. p	er hr3.	S Logge	rs T.D.			
5.	Present Operation	on Drig Hook	Load FF WO	B / RPM2	Se Torque	For	ma tion		
	_	& D.P.,Size,Cor			<u> </u>				
7.	No. 1 Pump Size	Stks/Min.	72 Circ.	Pressure	1700				
		Stks/Min.							
	-	BBLS. per min.	• •	<u> </u>				·	
	•								
. 10,	•	Size/Type		IN .	OUT	Ftg.	Hrs.	Ft./Hr.	Con
	Bit No. 1						·		
•	Bit.No. 3	5.4 W 287	S 6-9 E 45)	275		161	32/2	44	
u.	De viation 26	2342 2 3 3 3 3	34.5 9 73.75	e	<u> </u>	•	a.		
•	• -	Repair_ Trip	•		· • ·	irc	عمر آمر		
		.P. <u>5/2</u> Run Csg.							~~~
		K·9 Vie 3/ WI/i							
. 43.	-A			1			2sd	Ni!	·
	•	S LCM O Ca40		-				***************************************	
14.		B1 tsPuel	•		-		 .		-
•	Wa gesSuper	visionRental	L Equipment	& Co./dail	yCu	u	/Compan	у	•
. •	/daily	Cc	mpany	/daily	Cu	m	_Compan	у	
15.	Total Daily Cos	Cum. We	11	Cost/Hr.	•	Cost De	tv'		_
		Cum. Ftg. 185							<u> </u>
. 17	Hourly Breakdown						•		
17.				,		•	Remarks		
• ,		30 / Hesk up	•	vs.t		INI			
		ne / Orly	·		NEIDE	Min	, , , , , , , , , , , , , , , , , , ,	i	_
	From To				MEIN	HOLE			
	From To			<u> </u>	NFIDE	1.			
	From To		••••			·	 		-
	From To.								
· ' ··· Repc	ort BY				Cor	tract 7	7.D.¢	***************************************	N

"Report BY

· Contract T.E. #

Report BY

Jun. 21 '93 10:35	0000 F ETICS IN	K. TEL	1-303-22 722	P. 11
. 06/09/1993 09133	FROM : GATHERING	co T	79(25	4-1-1-91-
Fat 8525	Win-Rock L Daily Dri	orilling Company Illing Report	CONFID	ENTIAL 10
7	Well Name &	No. 52/+ W2		····
a new Since Smid	// Hours / 5 Ten the_	Fuel & cam.7/	_ TUCUES * CSTR * 1 * 4	HIS
	w+n/Past 24hrs. &	Ft, per hr. Z	Loggers 1.D.	
s Prusent Operation	on Arla llook Los	d Py WOB 7-7RPM	232 Torqueror	mation per 1 does That
6. B.H.A. See D.C	Stks/Min	Circ. Pressure	1700	
a n. 2 Pump Size	Stka/Min	Circ. Pressure		To .
9. Output GPN	/BBLS. per min.	Ann. Vel./D.C	<i></i>	· F •
10. 9.N	. Size/Type J	ets IN	out Ft.	Hrs. Ft./Hr. Cond
Bit No. 3				
Bit. No. 2		Vo cue ca a		wirls line tools 2hm
Deviation4.1	82K1 12 8279	227 Sarv	Surv. Circ.	wirle line tods 2hm do wig 41/2
· · · · · · · · · · · · · · · · · · ·	Deveir ITID	_ '\'16 00" '\ '		
P.U./Dn. D.C./	D.P. Run Csg.		4/ 2	
13. Drlg. Fluid/W	Vis 3P WL/I	30/18000	KCI. Other	
CI. Solids	Vis 3 WL/S. Com O Com Ho Bits Fuel	ALE. Truo	king Supplie	5
14. Costs/Service	BitsFuel_		aily Cum.	/Com
WagesSup	ervision Rental	de l'alle de l'a	ily Cum,	
	ostCum. We	1]Cost/H	Cost	Day
15. Total Daily	/4 Cum. Ftg. /42	Cum, Rep. O	Cum, Daywork	23/_1 1 1
17. Hourly Break			Operations	Remai
•		A - Anias	- hul	

Contract T.D.

•	-			
	ON (GATHERING CO	TO 7925	6-	د لاء ج
6-8-93 Fax 8525	Win-Rock Drilling Co	ompany	ONFIDENTE	AZT /
£40, 80	Well Name & No. 52 Well No. 52 Spud 6 Would A Tanths 73 Fuel	port C	UNEWAR	LEP
71	Wall Name & No. 5.2	It wash 1-15	\$19.H.T	23 Re 17
Company 5272 had	511 No. <u>5.2</u> Spud	T.D.@	R.R.	0
2. ContractorW	Hours /STenths 23 Fuel	2 6mm. inches.	Gals./24Hrs.	
4. Dopth @ Gam & Ft	g/Past 24hrs. /4 Ft. p 2. Up Whie Shie Hook Load 83 WO	-2/8000 2/00000	Formation	
5. Present Operation	Hook Load 0.5 WO	Bol a Khi and I bid	POT INC DION	
6. B.H.A. Same D.C. &	D.P.,Size,Conn.			
7. No. 1 Pump Size	Stks/MinCirc.	Pressure		
300 0400 41	k v 8 stks/Min. 88_Girc.	Pressure /4-01	2	
a On Lout // O GPM/BB	LS. per minAnn. Ve	1./D.C	D.Y	
s.n. s.N.	Size/Type Jete		Ftg. Hrs.	Ft./Hr. Cond
3 7 FUN	2:009 4/2 243	8215		
		8261 827	5 14 3	4.2 20-I
			Wir	4.4 / 1/4 = 2 hi
2. Deviation	spair # Trip 2 //2 Rig Se	sry. Surv.	_ Circ, Leg	- phy mac
_2. Hours/Drlg3 Re	Run Cag. Cut.	R.U. R.D.	Move Sit	ngle liners fur-0
P.U./Dn. D.C./D.P.	7 Vis 46 WI42-4 PV 17	YP/6 Gels 7/5	PH & FC 2 S	d. Nil
13. Drlg. Fluid/Wt.	7 V15 9/6 W1/2-9 1 1	Chno. KGL	Other	
CL75 Solids /. 4	LCM O Ca PU Alk. 6	Tauak Inc	Supplies	
/C ADE	B1 t8 ruc			ion TERRIT
WagesSupervi	sionRental Equipmen	t & Co./dally	Cor	787
/daily	cumCompany_	./daily	CUM.	1990 - 1990 1990 - 1990
15. Total Daily Cost	Cum. Well	Gost/Hr	Cost Day	04 16 1
Cum. Rot. // Cu	um. Ftg. /4 Cum. Rep	Cum.	Daywork 201	
17. Hourly Breakdown		0	perations & Rem	ark (
From 4.70 To //.33	s / run sala Gyron &	priest	WENTINE .	F Phop
Trong To 2.36	o / Orill	COME	Mare Hore	- & &
From To.3.2	full out wire 1149	- 10	DENT HOLE	
From To Zie	1 Chain out			_
From To A	1 Cut Orly line	me wollit		-
From To sign	1 TEH			
From	Fill Hala + R U wit	reline tools	Contract T.D	
Report DY		•		TOTAL P. 81

- Win-Rock Drilling Company Daily Drilling Report

12

Company	Sarana	Well Na	me & No5	21+ w	ush f-1	<u>5</u> Sec. <u>#</u>	In.	25 Rg	17
2. Contract	OF W-R	Well No. <u>s2</u> Sp	ud @	т	.D.e		THE P	Ò	
3. Days Sin	ce Spud 🛠	Hours / 5 Ten	thsFue]	6am/	_inched	. de 1	4HysoL	520	
4. Depth @	6am. 1262 F	tg/Past 24hrs	Ft,	per hr.	نيا Log	FALS HT.D	•		
		rient Tool for Hook	i 🗩			-			
		D.P.,Size,Co	•						
•		Stks/Min	-			•	J-mul	eshol	
		X16 Stks/Min				—·-— .	- 2.n	on majn	usic u
	_	LS. per min.					_P_		
		Size/Type	•			Ftg.		Ft./Hr.	
Bit No.	1								
Bi.t.No.	432559	4/12 1/200	B asset	8241				·	
11. Deviatio	on é		•	. 0					2/12
		pairTrip							V
של און אין	nc:/np	Run Cse.	Cmt.	R.U.	R.D.	Move	work	on wire	L hine
1.0./ <i>Di</i> 1.		Run Csg.	CC PV V	YP /4/ Ge	12 7/ P	H 4 4 FC	Direct	-ton prof	Er-V
		LCM O Caza							
•	• •	_BitsFue							
		ionRents	,						
		_cum(
	* * * *	Cum. V					4.6 1.		
					Com The	ywork /	HOL	oiler	
	•	. Ftg.	сиш. көр	·		rations	* Panan	 	
17. Hourly		,	0.10	~ °/			& Kemari	Ç6	
·	-	1 Trip for	BHR		TE			<u> </u>	
	TO \$130			213	_	Circ.	<u></u>	tools	
From From	•	ITEH I MILL WAY	Tracked soil		o work	on with	- Kolly V	9/46	
From	To 7:50	=		570	rehead	l wirk !	ike for	5	and n
From		I T.O.H		Line.	ran SA	6 gyro	CHARLE.		
From	To 8.30	1 Charge BH	A			7. 7	e orie	<i></i>	
Report BY	9.N	Hock up de	irection e	74.p		Contract	T.D.e_		

in. `21 '93 10:37	0000 ('GETICS INC.	TEL 1-303-2	9722	P.14
, ,				6-6-9.3
	Jan-Rock Drillin Daily Drillin Mell Name & No. Well No.52 Spud @	ng Company	EIDEN	TIMES? 13
Company #52rd	nan_Well Name & No	5 8/4 ways /-	CONT HA	OLE Rg.
2. Contractor w.K.	Well No.52 Spud @	T.D.e	7/6. R. R	l. @
3. Days Since Spud	7 Hours/5 Tenths Fu	el 6 6am. / 4 inche	es.Gals./24Hrs.	397
4. Depth @ 6am. 8747	Ftg/Past 24hrsFt	t. per hrL	oggers T.D.	
5. Present Operation	Hook Load	WOB TO	rqueFormatio	on Sterl
6. B.H.A.//2/ D.C.	& D.P., Size, Conn. mill)		
	Joyie Stks/Min. Ci			
	Stks/MinCi			
	BBLS. per minAnn			
10. S.N.	Size/Type Jets			. Ft./Hr. Cond
Bit, No. 2			···	Rem 1
11. Deviation e				
2. Hours/Dang. 10/2	Repair_/ Trip///2Rig	ServSurv	Cife Lo	<u> </u>
P.U./Dn. D.C./D	P. Run Csg. Cm	R.U R.I	nove	C.4
13. Drlg. Fluid/Wt.	7.9 V18 86 WI PV	YP Gels	PRFU	30,
CL55 Solids .	6 LCM O Ca 464 Alk.	Chro. 17 KGL	Utner	
14. Costs/Services_	BitsFuelW	tr. Trucking	Supplies/C	
WagesSuper	visionRental Equip	ment & Co./daily		, separty
/daily	cumCompany_	./dally	Cont Day	Juipairy
15. Total Daily Cos	tCum. Well	Cost/Hr	COS V Day	Poiler
Cum. Rot.	Cum. Ftg. Cum.	RepCum.	Daywork_2.39	
17. Hourly Breakdow	m		Operations & Re	MAL AS
From bin To 7	in repair reducts	Take Dp.	T/Aza	IAL
From To 2	<u>'00 </u>	2110	CONFIDER	Dr.
From To 4	31 Tel. Withill	LIND DATE	CULLIN	
From To A	m in repair redor; ou Sul Tel. welmill so ream 6/45 The H we mill 8246		71	
From To C	W mill a kyor	Allen		
From To	a I TOOH Charmy	\B##		
Report BY		•	Jonuract T.I	0,6

Win-Rock Drilling Company Daily Drilling Report

TETICS INC.

9999 E

	arine NIAL
. C	ompany January Well Name & No. Salt Wash Conference Hours. Rg. ontractor WR Well No. 52 Spud 6 T.D. 6 TLH R.R. 6 Pays Since Spud 6 Hours / 5 Tenths Fuel 6 6am. /4 inches. Gals. /24Hrs. 370
2. C	ontractor WR Well No.52Spud e T.D.e 76" R.R. e
3. D	ays Since Spud 6 Hours/5 Tenths Fuel 6 6am. /4 inches.Gals./24Hrs. 370
4. D	epth & fam X262 Ftg/Past 24hrs Ft. per hr Loggers T.D
5. P	resent Operation Willing Hook Load 80 WOB / RPM 80 Torque Formation from
	3.11.A. 970 D.C. & D.P., Size, Conn. Start mill - Set Sub - Cross over - Kule Sho
	No. 31 Pump Size 42 X 8 Stks/Min. 120 Circ. Pressure 900
	No. 2 Pump SizeStks/MinCirc. Pressure
	Output GPM/BBLS. per minAnn. Vel./D.C D.P
	S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Co
10.	Bit No. 1 4.625 8746 2
	·
	Bit, No. 2
.11.	De via tion e
2.	Hours/Drlg. 1/2 Repair Trip 8 4 Rig Serv. Surv. Circ. 1/8 Log
	P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move / Move / Set to
13.	Drlg. Fluid/Wt. 2.9 Vis 30 WL PV YP Gels PH FC Sd.
	CL_Solids_LCM_Ca_AlkChroKCL_Gther_
14.	Costs/Services Bits Fuel Wtr. Trucking Supplies
•	Wages Supervision Rental Equipment & Co./daily Cum. /Company
	/dailycumCompany/dailyCumCompany
15.	Total Daily Cost Cum. Well Cost/Hr Cost Day
	Cum. Rot. Cum. Ftg. Cum. Rep. O Cum. Daywork /35 Boiler
17.	Hourly Breakdown Operations & Remarks
21.	The Change Swing packing
•	From 6:00 Tolio 1 Trip Change Survey parking. From 5:00 1 6:11. Tooks Trypinhole 7216
	From SAO TO/1:30/ B.U. Whipstories
٠,,	11:20 To 17: 101 Civil
	From 12:10 1:10/ Grant retire stock!
	From 1:00 To 1:301 Orient & Set whip storle
	From 1:26 To 2:30 Plant on rental guing 2:30.5:30 (thy surisi packing Contract T.D.8) ort BY 5:20 6:00 Mile
Rep	ort By 5: 20 Gion Mill

0000

6-4-93

259-2004

Win-Rock Drilling Company Daily Drilling Report

Company Saranan Janowell Name & No. Salt Wash CONFIDENTIAL Contractor WR Well No. 2 Spud & T.D. & TUH R.R. &	
Company Saranan Sanswell Name & No. Salt Wash Class 13 pole 35 Rg. 17E 2. Contractor WR Well No52 Spud @ T.D. R.R. 8 3. Days Since Spud 5 Hours 5 Tenths 17 Fuel & 6am. inches.Gals./24Hrs.	-
	-
3. Days Since Spud 5 Hours 5 Tenths 1 Fuel & 6am. inches.Gals./24Hrs.	_
4. Depth & Cam \$262 Ftg/Past 24hrs. Ft. per hr. Loggers T.D.	
5. Present Operation Leg Cut Hook Load 600000B24 RPM 60 Torque Formation	
6. B.H.A. 12.61 D.C. & D.P., Size, Conn. Milf-Mill X-O mill F Six X-0 m	5)
7. No. 71 Pump Size Stks/Min. // 7 Circ. Pressure 700	
8. No. 2 Pump Size Stks/Min. Circ. Pressure	
9. Output 195 GPM/BBLS. per minAnn. Vel./D.CD.P	
10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Co	
Bit No. 1	_
Bit, No. 2	_
11. Deviation 6 6 6 6 6 6 6 6 6 1.0 Circ. Log	
P.U./Dn. D.C./D.P. Run Cag. Cmt. R.U. R.D. Move	
13. Drlg. Fluid/Wt. 9.0 Vis 29 WL PV YP Gels PH FC Sd.	
CL Solids LCM Ca Alk. Chro. KCL Other	
14. Costs/Services Bits Fuel Wtr. Trucking Supplies	_
Wages Supervision Rental Equipment & Co./daily Cum. /Company	_
./daily cum. Company ./daily Cum	-
./daily cum. Company ./daily Cum. Cum. Cost/Hr. Cost/Hr.	•
Cum. RotCum. FtgCum. RepCum. Daywork /35 Boiler	-
17. Hourly Breakdown Operations & Remarks	
From GAOTO 11 Am 1 Gill up wip stock hip in hole Slow Could not got	de
in the second of	210
From // To/2 / W & Onders	•
From 12 To 4 1 Sig out of bole - Chained out	•. &<*
- 0 1 1 - 1 : 50) 1:50-1:30 his h	100
3 - 11:21 1 C2 1:5915 - 5941 1:80 7:00 Quem 7/05-7/13	-
	٠/٠
12 Contract T.D. 8	_
Report BY	_

Win-Rock Drulling Company Daily Drilling Report

	-	·	Well Namell No.42 Spi	- A W-	4.	con	FIDENT	110	•
. Cc	ompany 5 a	ran an	MeTT NET	ne & No	2/t-Wash	/ Sé	C. H. TOW.	23 Rg.	<u> </u>
2. Cc	on tractory	W. W.	Well Namell No.42 Spu	nd e	T.D.	. //-	R.R.	<u>e</u>	
	-	•			-				
4. De	epth 6 6ai	m.8262Ft	g/Past 24hrs. Thip Speck	Ft. 1	er hr	Loggera	T.D		
5. P	resent Op	eration p.	Hook	LoadW	DBRPM	Torque	Formation		
6. B	.н.А	D.C. &	D.P.,Size,Co	nn.whip	Stock mil	1 Xo	mule she	XO m	ule 5 pe
7. N	o. 1 Pump	Size	Stks/Min	. <u>40</u> Circ.	Pressure	1875		χø	1 - X0
8. N	o. 2 Pump	Size	Stks/Min	Cire.	Pressure				
9. 0	utput	GPM/BBL	S. per min	Ann. V	el./D.C		D.P		
10.		s.N.	Size/Type	Jets	IN C	ur ruc	tg. Hrs.	Ft./Hr.	Cond
•		•						~ ~ ~ ~ ~ ~	
В	Bit,No. 2	· · · · · · · · · · · · · · · · · · ·				 			
11. D	e via tions	-Fe 740	7 4 0 F2	<u> 2 0</u>				<i>A</i>	
			airTrip					Gym	
			5 Run Csg.						
			Vis 28 WL						X
			.CMCa						
			BiteFue						
			LonRen t						
	/d	ail <u>y</u>	cum	Company	/daily	Cum	Com	pany	
74 (Total Dai	ly Gost	Cum. 1	dell	_Cost/Hr		Cost Day		
			. Ftg	Cum. Ren		um. Davwo	1898/	Boiler	
•	•		. FUE		<u></u>	•			
	Hourly Br		•	_		-	ions & Rema		
	From 6'00	To 5779	1 RU-24	D.P.		·	HEIDEN	HAL	
	From	10 670	1 Gire +	Cond.		<u></u>	MEIDEL	OLE	
	From	To forth	run mu	di shot		00	NEIDEN H	XP ²	
: الر	From	To 4.30	1.O.H				······································	4	
4	Prom	TofTo	dn BH	A +Pi	W up A	ew			
	From	_To	/	·					
	From	_To	/			······································			
Repo	rt BY	<u> </u>	•			Con	tract T.D.		

0000

259-2664 in-Rock Drilling Company Daily Drilling Report

TEL 1-303-4

P. 18 6-2-93 Riz Z 17

	Company Saran ah	Well Name & No.	Salt west 1-15	Sec Intell	FIAR RE- LZ
2.	Contractor Wel	1 No.52 Spud 6	T.D.@_	CONFIDE	POEE
. 3.	Contractor W-R Well Days Since Spud 3 Ho	urs/5 Tenths	Fuel 6 6am. 19 inc	hes dals . /24Hrs	428
	Depth & Cam \$262 Ftg/				
	Present Operation DU				
	B.H.A. D.C. & D.	-			
	No. 1 Pump Size			-, -,	
					Jyme variation
	. No. 2 Pump Size				
9.	Output GPM/BBLS	, per minAn	n. Vel./D.C	D.P	•
' 10	s.n. s	ze/Type Jets	. IN OU	r Ftg. Hr	s. Ft./Hr. Cond
	Bit No. 1896495	the us	<u> 8262 _</u>		
	Dit No. 2				
				e	v-07ed= 91/3
	. Deviationg	ir Trin Ri	g Serv. Surv.	Cire.	1-lz-J-5H4W.57/; 108
	. Hours/Drig Repa	** ** ** **	-	D. Nove #7	+1 Election
	(.U./Dn. D.C./Q.D.	Run Cag.	it. K.V. R	.D. HOVE AL	- Cos buder
13	. Drlg. Fluid/Wt.	WLPV_	YP . Gels_	PH_FC_	Sd.
	CLSolidsLC	MCaAlk	ChroKGL	Other 15xx	W W. J. M. J.
14	. Costs/ServicesE	itsFuelV	trTrucking	Supplied	t in Pump
· · ·	WagesSupervision	nRental Equi	pment & Co./daily_	Cum/(Company
• .	./daily	Company	./daily_	Cum	Company
	. Total Daily Gost				
		·		/4/47 Daywork <u>77</u>	Boiler
	:	* VB1		Operations & R	emerks
, 17	Hourly Breakdown				
•	From Lind To Side /	Nip up de	woo Teskt		
		Test Stack		Jn. 1	MTIAL
		make up lose	basker Lucla	CUNEINE	HOLE
<i>ب</i> .	From To/154		+1 Minbe	AloHI	<u></u>
	From To Cu	DU 27/A	DP (
ار داران میرانده	From To	Tell - 2.18			
٠	From To	•		Contract T.	D.@

Win-Rock Dri

rilling Company lling Report	Na in a		18
00. 1		•	

	Company Saranan Well Name & No. Salt Wash 1-15 Sec. 15 Tn. 23 Rg. 17
2.	Contractor W-K Well No.52 Spud & T.D.e
3.	Days Since Spud 2 Hours /5 Tenths Fuel 6 6am. inches The Julius Hours
4.	Depth @ 6amFtg/Past 24hrsFt. per hrLoggers to
5.	Present Operation Tigo Califook Load WOB RPM Torque Formation
6.	B.H.A. D.C. & D.P., Size, Conn.
	No. 1 Pump SizeStks/MinCirc. Pressure
8.	No. 2 Pump Size Stks/Min. Circ. Pressure
9.	Output GPM/BBLS. per minAnn. Vel./D.CD.P
	S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr. Con
•	Bit No. 1
	Bit, No. 2
11.	Deviation @ @ @
_2.	Hours/Drlg. Repair Trip Rig Serv. Surv. Circ. Log
	P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move
13:	Drlg. Fluid/Wt. Vis WL PV YP Gels PH FC Sd.
: . .	CL Solids LCM Ca Alk. Chro. KCL Other
14.	Costs/Services Bits Fuel Wtr. Trucking Supplies
	Wages Supervision Rental Equipment & Co./daily Cum. /Company
	./dailycumCompany/dailyCumCompany
•	Total Daily Cost Cum. Well Cost/Hr. Cost Day
	Cum. Rot. Cum. Ftg. Cum. Rep. Cum. Daywork Boiler
17.	Hourly Breakdown Operations & Remarks
~'.	
	From 3:00 To 8:20 Right WIRE LINE & W.O. BRIDGE PLUE From 8:20 To 10:00 W.O. BRIDGE PLUE CHANGE
.	From \$ 20 To 10:001 W.O. BRIDGE PLUG CHANGE
•	From/0:00 To 11:301 RUN SRIDGE PLUG 8262
	From 1130 To. 6:00 NiPPIF DOWN 6"BOPS NIPPIF UP 10" BOP
	From To /
Rep	contract T.D.e

TEL 1-303-2

Ellies me.

Win-Rock Drilling Company Daily Drilling Report

5-3/-93

Company Saranan Well Name & No. Salt Wash Sec. / S Tn. 23 Rg. / S	,
2. Contractor Well No. 52 Spud & T.D. 8 R.R. 8	
3. Days Since Spud / Hours / Tenths Fuel & 6am. inches. Galo Fall 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
4. Depth @ 6am. Ftg/Past 24hrs. Ft. per hr. Coggers J.D.HOLE	
5. Present Operation new Hook Load WOB RPM Torque Formation	
6. B.H.A. D.C. & D.P., Size, Conn.	
7. No1 Pump Size Stks/Min. Circ. Pressure	
8. No. 2 Pump Size Stks/Min. Circ. Pressure	
9. Output GPM/BBLS. per. min. Ann. Vel./D.C. D.P.	
·	
10. S.N. Size/Type Jets IN OUT Ftg. Hrs. Ft./Hr.	Conc
Bit No. 1	
Bit, No. 2	
li. Deviation	
_2. Hours/Drlg Repair Trip Rig Serv Surv Circ Log	
P.U./Dn. D.C./D.P. Run Csg. Cmt. R.U. R.D. Move	
13. Drlg. Fluid/Wt. Vis WL PV YP Gels PH FC Sd.	
CL Solids LCM Ca Alk. Chro. KCL Other	
14. Costs/Services Bits Fuel Wtr. Trucking Supplies	
Wages Supervision Rental Equipment & Co./daily Cum. /Company	•
./dailycumCompany/dailyCumCompany	
15. Total Daily Cost Cum. Well Cost/Hr. Cost Day	
	 .
17. Hourly Breakdown From 6:00 To 7:00 Einish drilling masse Hale	
From 6:00 To 7:00 / Einish drilling masse Hale	
From 7:00 To 7:00 Einish drilling masse Hale From 7:00 To 8:00 Dump shale Pit & Shavel 5 200 From 8:00 To 9:00 Shavel Stand from Shale Pit 16 From 7:00 To 9:00 Shavel Stand from Shale Pit 16 From 7:00 To 9:00 Black Pressure of twell, w. O. Bribe water, 6" B.O.P.	
From Rim To gion Shovel SAND From Shale Pit	;
From 9: 10 8:00 Black Pressure off well, W.O. Brine water, L" B.O.P.	_
From the total the transfer of	
From 10:10 To 12:10 Claw well through that's From 12:10 To 2:10 Manipple well head + sipple up 6" B.O.F	
Report BY 6:00 W-0-2 18 Tubing Slips Contract T.D.e	

P.21 5-30-93 Pig 7

Win-Rock Drilling Company Daily Drilling Report

•							Sec		-	
2.	Contractor	lesoft.	Well No.	Spud @	:	T.D.e	·	R.R.	<u>e</u>	
3.	Days Since	Spud_	Hours/5	Ten ths	Fuel @ 6mm	.22 inch	es.Gals./2	LANT		
4.	Depth @ 6a	m F	tg/Past 24	hrs	Ft. per hr	۵	Cal- IV		,	
	Present Or	peration	Drig +	look Load	พก่ห์	RPM TO	Payed I For	HOLE		
-						······································	PARTIE TO	mation_		 .
•				Gonn.				•		
7.	No. 1 Pump	Size	stks/	MinC	irc. Press	ure				
8.	No. 2 Pump	Size	Stks/	MinC	irc. Press	ure				
9.	Output	GPM/В	BLS. per mi	inAn	n. Vel./D.	c	D.	P		
10.				•			· Ftg.		F+ /H+	Con
	•			•	•		- 46.		1 0.7111 1	COM
	Bit No. 1									
	Bit.No. 2									
u.	Deviation				<u> </u>	<u>e</u>		,		
٠.2.	Hours/Drl	g Re	spair	Tri <u>p</u> Ri	g Serv	Surv	Circ.	Log_		
	•					•	Move			
'				-			PHFC	***		
13.										
	-						Other			
14.	Costs/Ser	vices	_Bits	FuelW	'trTr	uck ing	Supplies_		· · · · · · · · · · · · · · · · · · ·	
	Wa ges	Supervi	sionR	ental Equip	ment & Co.	/daily	Cum	_/Compa	iny	
	/d	aily	_ cum	Company_	./	daily	Cum	Compa	any	
15.	Total Dai	lv Cost	Cui	m. Well	Cost/	Hr.	Cost 1	Dav	•	
		•••	•			•	Daywork			
*	• •		m		nep i					•
. 17.	Hourly Br	eakdown	•			C	perations (k Remari	K8	
•	From 7:10	To 3:11	1 Rig	up + f	ick 4A -	BHB		·_·		
	From 3.m	To 6:00	<u> Deilli</u>	m Rat H	ale 1 mo	use Hole	· · · · · · · · · · · · · · · · · · ·	A B X		
	From						FIDENT	IAL		
Ü	From	To	1	· • · · · · · · · · · · · · · · · · · ·		COV	ILIAP.	JE_	•	
	From		./			-A	LHT H			·
	From		-/							
	From					· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
Rep	ort BY		<u></u>				Contract	T.D.e_		 -

Moab District P. O. Box 970 Moab, Utah 84532

3160 (U-31805) (UT-065)

CERTIFIED MAIL-RETURN RECEIPT REQUESTED Certification No. P 875 024 174

DEC 1 6 1993

WRITTEN ORDER

Mr. W. Don Quigley Megadon Energy Company 175 South West Temple, Suite 20 Salt Lake City, Utah 84101

Re:

Produced Water Disposal (Onshore Oil and Gas Order No. 7)

Federal No. 1-15 Lease U-31805 Section 15, T. 23 S., R. 17 E.

Grand County, Utah

Dear Mr. Quigley:

A review of our files shows that your Federal 1-15 well has not been granted a water disposal approval. We are aware that the well is producing water, and we must insure its proper disposal.

Within ten days of receipt of this letter, you shall submit an application for produced water disposal in accordance with the guidelines of Onshore Oil and Gas Order No. 7. You shall also submit documentation of where the produced water has been disposed in the past.

Should you have any questions, please call Eric Jones of this office at (801) 259-6111.

Sincerely,

/S/ WILLIAM C. STRINGER

Associate District Manager

cc: UT-068, Grand Resource Area



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District P. O. Box 970 Moab, Utah 84532

DEC - 9 1993

3160 (U-31805) (UT-065)

CERTIFIED MAIL-RETURN RECEIPT REQUESTED Certification No. P 375 791 567

WRITTEN ORDER

Mr. W. Don Quigley
Megadon Energy
175 South West Temple, Suite 20
Salt Lake City, Utah 84101

Re:

Completion Report and Directional Survey

Federal No. 1-15 Lease U-31805 Section 15, T23S, R17E Grand County, Utah

Dear Mr. Quigley:

Since completion of the re-entry work on well no. 1-15 this summer, we have received neither a recompletion report (Form 3160-4) nor a directional survey. If a directional survey has not yet been run, it must be run promptly to determine the actual bottom-hole location. Both of these reports shall be submitted within 30 days of receipt of this letter.

At the time of our last inspection of the site, the rig was still on location. If the rig is still needed, you must submit a proposal and a schedule for its use. If the rig is not going to be used further, it shall be removed within 30 days of receipt of this letter.

Should you have any questions, please call Eric Jones at (801) 259-6111.

Sincerely,

/S/ WILLIAM C. STRINGER

Associate District Manager

cc: UT-068, Grand Resource Area

SARANAN LAND COMPANY, INC.

Ron Firth 355 West North Temple 3 Triad Center Ste. 350 Salt Lake City, Utah 84180

December 22, 1993

JAN 03 1994

DIVISION OF OIL, GAS & MINING

Dear Ron,

43-019-30752

Enclosed is a copy of the well report for the Megadon #1-15 as submitted to the BLM. A completion report will follow. I apologize for the delay.

Sincerely,

Carl I. Hittle

Megadon Federal 1-15 T23S, R17E Section 15 Grand County, Utah

Horizontal Re-entry

- 5-27-93 to 5-30-93: Move in rig-up Win Rock Drilling Rig #7
- 5-31-93: Nipple down wellhead, nipple up BOP, pull 2 3/8 tubing and lay down, set bridge plug at 8262 feet, nipple down BOP and tubing head
- 6-1-93: Nipple up 5000# BOP, gas buster and choke lines, pressure test BOP, strap drill pipe
- 6-2-93: Set in triplex pump, pick up drill pipe, circulate and condition
- 6-3-93: POOH, pick up bottom hole assembly and whipstock, whipstock tagged up at 6949', chain out of hole, pick up mills and ream out hole
- 6-4-93 POOH, pressure test casing, OK, pick up tools and whipstock and go in hole
- 6-5-93 go in hole with whipstock, pick up kelly, fill pipe with fluid , break circulation
- 6-6-93: Set and orient whipstock at 8247' (top), change swivel packing and work on pump, mill at 8246', repair rotary table, mill, trip out for window mill and mill from 8246' to 8254' into formation
- 6-6-93 Mill, POOH make up BHA, service rig, Trip in with downhole motor and bit
- 6-7-93: Run gyro, start to drill, cut 90' drill line, change liners in pump
- 6-8-93: Wait on bit, fill hole, rig up wire line and align bit, drill $6\frac{1}{2}$ hours, shut down for Columbia Pictures $9\frac{1}{2}$ hr. MD 8363'
- 6-9-93: Shut down for Columbia Pictures $11\frac{1}{2}$ hours, survey and chain out of hole
- 6-10-93: Realign tool, TIH, rig up wireline and wet connect, drill $13\frac{1}{2}$ hours, MD 8436'
- 6-11-93: Drill, POOH, rerig wireline, MD 8460'
- 6-12-93: Chain out, realign bit, TIH, wash and ream, Drill 8 hours, MD 8466'

6-13-93: Drill, trip out of hole to pick up magnet to get junk out of hole, trip back in, MD 8471'

6-14-93: Finish trip back in with mill to mill up junk, rig service, TOOH, drill $6\frac{1}{2}$ hours, MD 8491'

6-15-93: Drill 16 hours, TOOH, change angle on motor, TIH MD 8514'

6-16-93: TIH, circulate out gas kick, raise mud from 8.9 to 9.5, drill $13\frac{1}{2}$ hours, MD 8555'

6-17-93: Drill, MD 8595'

6-18-93:Drill, survey, POOH for new bit, TIH, ream and wash, drill $7\frac{1}{2}$ hours, MD 8641'

6-19-93: Drill MD 8719

6-20-93: Drill, service rig, MD 8801

6-21-93: Drill 13 hours, POOH, displace well with brine water, prepare to test, MD 8830, TVD 8540

6-22-93: circulate and condition, wait on brine, lay down drill pipe. MD 8830, TVD 8540; From window cut in $5\frac{1}{2}$ casing at 8250' Total of 421 feet drilled; Coordinates are 421.55 South 133.05 East

6-22-93: nipple down BOP, Nipple up small BOP, run 2 3/8 tubing with packer at 5295'wait on test

6-28-93: Bottom of tubing at 8819', open hole from 8250 to 8830, wash with 300 gallons 10% HCL wait one hour, open to pit on 48/64th, flowed 12 bbls. acid water in one hour, leave open to frac tank over night

6-29-93: well flowed 53 bbls. kill water overnight, at 12:30 P.M. had 100# on tubing with small intermitent flow, 2 P.M. well started to flow some gas and oil, shut-in one hour put well on ½ choke and well began to flow hard, Gauge as follows: 3:00 PM - 4'10"

3:30 PM - 5'10"

4:00 PM - 6'10

Well flowing at 450 -525#, made 40 bbls. oil in first hour Choke to 24/64th at 5:30 PM

8:00 PM - 8'10"

Well flowing at 450 - 475#, has made 80 bbls in 5 hours all oil , choke to 18/64 th at 8:15 PM

6-30-93: 7:00 AM - Pressure down to 100#, well making water, total fluid down to trickle then comes in heads 10-30% oil. Shut well in one hour pressure to 1000#, open well to tank and flow hard for a few minutes then dies making 10-30% oil

1:00 PM - Well dies then pressures up and starts to flow oil and water, decide to kill well and pull tubing up 10 feet, prepare to run inflatable packers to try to isolate oil and water zones. Will leave packer unset in tubing to test production while waiting on inflatables. In the past the well will gravity seperate and allow the production of oil with no water while flowing up the casing, will try this method while waiting. Kill well with brine, nipple down BOP, pull up 10 feet, nipple up well head

7-1-93: Transfer oil from frac tanks to tank battery, water to pit, pump some oil down tubing displacing some kill water from casing to pit, holok up flow lines

7-2-93: well flowed 68 bbls. oil during day after being shut-in 24 hours Shut well in for now.

7-3-93: Made 36 bbls no water from casing flowing up to 525# then dead. Shut well in.

Well has made a total of 184 bbls. oil and 30-40 bbls water

Test well for gravity seperation production capacity.

7-7-93: 10 AM Casing 1600# Tubing 0# Rig up swab and make 31 swab runs, swab kill water to pit well kicked off on 31st pull, recovered 32 bbls. oil, shut-in for night

7-8-93: 9:30 AM Casing 2300# Tubing 1850# bled down tubing in one hour made 3.5 bbls oil, shut-in till noon, tubing pressure up to 200#, open casing and tubing on $\frac{1}{2}$ choke began flowing at 12:45 PM.

4:00 PM Casing 900# Tubing 0 on 25/64th 7:00 PM Choke to 8/64th for night Well made 78 bbls. oil 5 bbls. water for the day

7-9-93: Casing 2240# Tubing 67#
Well made 1 bbls. oil overnight occasional small surge during this day,

4:00 PM shut-in Total 3 bbls. oil for day

7-10-93: Work on separator and flow lines, well shut-in

7-11-93: 9:00 AM Casing 2200# Tubing 600#
Work on separator
1:30 PM blow down tubing - no fluid
open casing on ¼ choke
4:30 PM casing at 150# starting to make a good flow
of oil
8:00 PM well dead

Total: 25 bbls. oil, no water Shut well in

- 7-14-93: CP 1412, TP 650
 1:00 PM Open both on 14/64th
 3:00 PM CP 80 TP 25 small oil flow from casing
 4:00 PM CP 200 TP 25 making small oil from casing
 9:00 PM Made total of 15.5 bbls oil no water,
 open to 2 overnight, CP 125 TP 25
- 7-15-93: 7:30 AM CP 125 TP 20, made 7.5 bbls. oil no water over night
 12:00 PM CP 50 making about ½ bbl. per hour from casing, no water
 10:00 PM CP 0 TP 0 leave open on ½ overnight Total: 21 bbls. oil, no water since last night
- 7-16-93: CP 0-50 TP 20 made 6 bbls. overnight and a total of 13.5 for the day with no water, Shut well in
- 7-23 thru 7-26-93:

 Produced well on variable chokes allowing the well
 to build up pressure and gravity separate overnight
 well makes between 10 20 bbls oil per day and
 little if any water, will continue "on and off"
 basis until inflatable packer is set
- 8-15-93: Trip in and out with 4½ bit, hole is in good shape, circulate and condition, pull 25 stands shut down for night
- 8-16-93: Pull remaining tubing, 71 stands 1 joint; make up 14.25' slotted 2 3/8 tubing joint plus 147' tubing with Baker single set sheer release inflatable packer above tubing, go in hole, tag bottom, pull up 4½ feet. Top of packer is 176 feet off the bottom of the hole. Set packer with 1500#. Shut down for night.
- 8-17-93: Rig up Fowler well service for swabbing Make 10 runs to 5000', rig can't go any farther, recover load water, fluid rises to 4500 feet after pulling from 5000. well won't kick off. total of 22 runs, last 12 from 5000' each pulling only 100 -200 feet of load water. Slow fluid entry. Shut down for night.
- 8-18-93: 7:30 AM Fluid tagged at 3700', rose 1300 feet over night, approximately 5 bbls., first pull from 4300 feet recovered 75-80% oil, Run 2: fluid 4200, pull 4800, 40-60% oil

Run 3: fluid 4400, pull 5000, 20% oil Runs 4-8: pull from 5000' with very small recovery of load water with a film of oil Runs 9-11: pull from 5000' all as above, all 11 runs were gassy Shut down and wait on bigger swab unit, recovered

20-25 bbls. load water so far

8-22-93: Rig up Delsco

Run 1: Tag fluid at 1600 pull from 3600 recovered 65-70% oil

Run 2: Fluid 3100, Pull 5100 recover load and film of oil, water getting lighter, 9.7# down 9.8 -9.9#

Run 3: Fluid 4700, Pull 6200, Gas cut water 9.5# Run 4: Fluid 5400, Pull 6900, Gassy 9.5# water with trace of oil, casing starting to go on

vacuum

Run 5: Fluid 5900 Pull 7400, Trying to flow, gassy, water 9.4-9.5#, all load should now be recovered, recovered 10-15% oil

Run 6: Swab won't go, well trying to flow, casing on vacuum, well settled down, Fluid 2900 Pull 3900, recovered 9.8 -9.9# water.

Run 7: Fluid 1600 Pull 2600, recovered 9.9# water

Casing is on vacuum, packer has failed and we are now swabbing in kill water from the back side. Runs 8-15: Recovered kill water from back side. Shut down for new packer

8-23-93: Trip out, packer had released, make up second packer with top at 8460', 370' off the bottom. off Below the packer is tubing with slotted joint 6 the bottom. Set with 1600#, set down 2 feet in compression on tubing

8-24-93: Rig up swab

Runs: 1-4 went to 3200' total, fluid tagged at 2200' on 4th and pulled from 3200' waited 15 minutes after 4th

Run 5: Fluid 500 Pull 1500, recovered gas cut 9.7# water

Run 6: Fluid 600 Pull 1600, recovered 9.7#

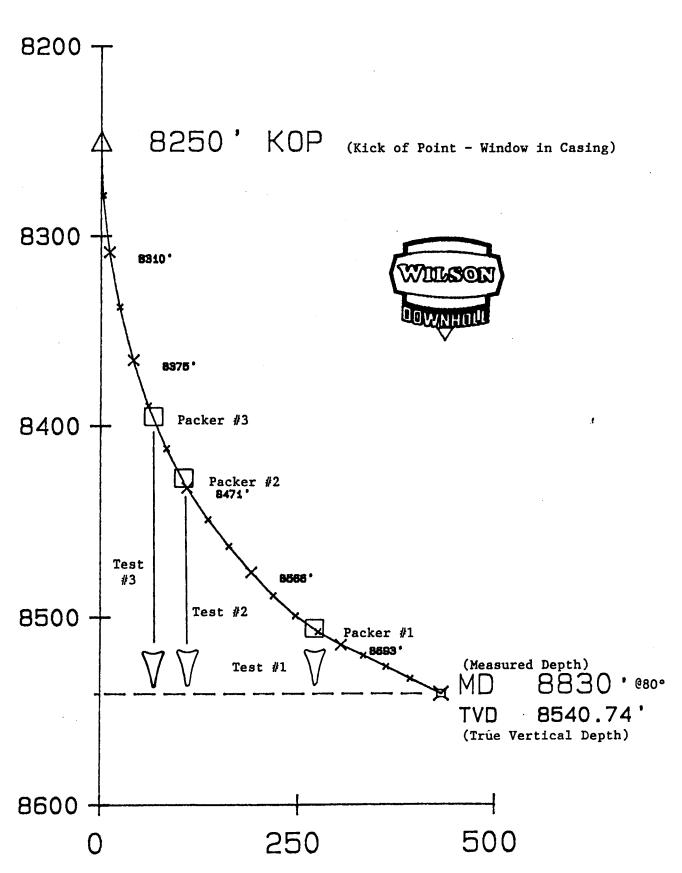
Run 7: Fluid 800 Pull 1800, recovered 9.5# water casing on vacuum, small blow tubing

Run 8: Fluid 500 Pull 2500, 9.6# water, well began to flow hard 75 -85% oil, casing blowing

also, packer FAILED Runs 9-20: Well would flow hard after each pull for a few minutes then die, recovering 50-75% oil, shut down and wait for new packer

- 8-25 thru 9-4-93: Well produced thru casing by "on and off" method
- 9-4-93: Kill well, pull tubing, packer ruptured but not released. Run in with Backer rotational release packer with swivel bottom. Set at 1700#. Bottom tubing assembly same as before with slotted joint 8 feet off bottom. Top of packer at 8407 feet.

 Nipple down BOP, nipple up well head
- 9-7-93: Rig up Fowler, started pulling from 900 feet, with initial fluid at 400, got to 1500 feet on 9th run and the well kicked off. Initially flowing on \$\frac{1}{4}\$ choke with 475-500# TP. Casing side is dead. Well flowing 10-15 bbls. per hour, 75-85% oil.
- 9-8-93: Packer is holding, well to be tested on different chokes, plans to continue with further drilling of the horizontal leg being formulated.



DISTANCE OUT - PLANE OF PROPOSAL .



TVD 8540.74

SARANAN LAND CO.
MEGADON 1-15
SECTION 15 T23S R17E
GRAND COUNTY, UTAH

Vert. Sect. Dir. = S 5.0000 E Calculations using the Radius of Curvature Method

Meas. Depth	Hole Ang.	T.V.D.	V. S. Dist.	Hole Dir.	Total Lat.	Coordinates Dep.	C L O S U Distance	RES D.L. Direction Sev.
8250	.00	8250.00	.00	Vertical	00	.00	.00 N	.0000 E .00
8279	12.00	8278.79	2.67	S 23.00			3.03 8	23.0000 W 41.38
8310	22.00	8308.40	10.77	S 20.00			12.08 8	
8342	29.50	8337.20		S 5.40			25.85 S	
8375	34.30	8365.21	41.32	S 6.90			42.75 S	9.8556 W 24.49
8406	41.90	8389.58	60.43	S 3.50	E 61.15	s 5.59 W	61.41 S	5.2187 W 25.43
8438	49.50	8411.92	83.32	S 5.10	E 83.97	S 3.87 W	84.06 S	2.6384 W 24.02
8471	54.80	8432.16	109.21	S 15.90	E 109.55	S .87 E	109.55 S	.4551 E 30.43
8503	61.10	8449.13	135.60	S 20.40	E 135.30	S 9.31 E	135.62 S	3.9374 E 23.02
8534	65.30	8463.10	162.26	S 20.50	E 161.22	S 18.98 E	162.33 S	6.7137 E 13.55
8566	65.90	8476.32	190.28	S 21.40	E 188.44	S 29.40 E	190.72	8.8672 E 3.17
8598	67.90	8488.88	218.52	S 21.40	E 215.84	S 40.14 E	219.54	5 10.5343 E 6.25
8629	72.70	8499.32	246.38	S 23.10	E 242.84	S 51.18 E	248.18	5 11.9021 E 16.32
8661	76.00	8507.96	275.44	S 25.70	E 270.90	S 63.91 E	278.34	3 13.2746 E 12.95
8693	79.60	8514.72	304.64	S 26.20	E 299.02	S 77.60 E	308.92	3 14.5474 E 11.35
8724	79.20	8520.42	333.22	S 24.40	E 326.57	S 90.62 E	338.90	S 15.5085 E 5.85
8755	78.70	8526.36	361.96	S 23.90	E 354.33	S 103.06 E	369.01	5 16.2183 E 2.26
8788	78.80	8532.80	392.50	S 24.80			401.08	5 16.8723 E 2.69
8795	78.90			S 23.70		S 119.23 E	407.89	5 16.9962 E 15.48
Project	ion of	previous	Build Rate	e 35	feet			

8830 79.40 8540.74 431.54 S 23.70 E 421.55 S 133.05 E 442.05 S 17.5163 E 1.43 ADDENDUM: VERTICAL ASSUMED AT 8250' AS REQUESTED BY SARANAN LAND C

Bottom Hole Closure 442.05 at S 17.5163 E



Megadon Federal 1-15 T23S, R17E Section 15 Grand County, Utah

Horizontal Re-entry

* . **

. . .

JAN 0 6 1994

DIVISION OF ÖIL, GAS & MINING



94 JAN -3 AM 9:01

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5-27-93 to 5-30-93: Move in rig-up Win Rock Drilling Rig #7

5-31-93: Nipple down wellhead, nipple up BOP, pull 2 3/8 tubing and lay down, set bridge plug at 8262 feet, nipple down BOP and tubing head

6-1-93: Nipple up 5000# BOP, gas buster and choke lines, pressure test BOP, strap drill pipe

6-2-93: Set in triplex pump, pick up drill pipe, circulate and condition

6-3-93: POOH, pick up bottom hole assembly and whipstock, whipstock tagged up at 6949', chain out of hole, pick up mills and ream out hole

6-4-93 POOH, pressure test casing, OK, pick up tools and whipstock and go in hole

6-5-93 go in hole with whipstock, pick up kelly, fill pipe with fluid , break circulation

6-6-93: Set and orient whipstock at 8247' (top), change swivel packing and work on pump, mill at 8246', repair rotary table, mill, trip out for window mill and mill from 8246' to 8254' into formation

6-6-93 Mill, POOH make up BHA, service rig, Trip in with downhole motor and bit

6-7-93: Run gyro, start to drill, cut 90' drill line, change liners in pump

6-8-93: Wait on bit, fill hole, rig up wire line and align bit, drill $6\frac{1}{2}$ hours, shut down for Columbia Pictures $9\frac{1}{2}$ hr. MD 8363'

6-9-93: Shut down for Columbia Pictures $11\frac{1}{2}$ hours, survey and chain out of hole

6-10-93: Realign tool, TIH, rig up wireline and wet connect, drill 13½ hours, MD 8436'

6-11-93: Drill, POOH, rerig wireline, MD 8460'

6-12-93: Chain out, realign bit, TIH, wash and ream, Drill 8 hours, MD 8466'

6-13-93: Drill, trip out of hole to pick up magnet to get junk out of hole, trip back in, MD 8471'

6-14-93: Finish trip back in with mill to mill up junk, rig service, TOOH, drill 6½ hours, MD 8491'

6-15-93: Drill 16 hours, TOOH, change angle on motor, TIH MD 8514'

6-16-93: TIH, circulate out gas kick, raise mud from 8.9 to 9.5, drill 13½ hours, MD 8555'

6-17-93: Drill, MD 8595'

6-18-93:Drill, survey, POOH for new bit, TIH, ream and wash, drill 7½ hours, MD 8641'

6-19-93: Drill MD 8719

6-20-93: Drill, service rig, MD 8801

6-21-93: Drill 13 hours, POOH, displace well with brine water, prepare to test, MD 8830, TVD 8540

6-22-93: circulate and condition, wait on brine, lay down drill pipe. MD 8830, TVD 8540; From window cut in $\overline{5}\frac{1}{2}$ casing at 8250' Total of 421 feet drilled; Coordinates are 133.05 East 421.55 South

6-22-93: nipple down BOP, Nipple up small BOP, run 2 3/8 tubing with packer at 5295'wait on test

6-28-93: Bottom of tubing at 8819', open hole from 8250 to 8830, wash with 300 gallons 10% HCL wait one hour, open to pit on 48/64th, flowed 12 bbls. acid water in one hour, leave open to frac tank over night

6-29-93: well flowed 53 bbls. kill water overnight, at 12:30 P.M. had 100# on tubing with small intermitent flow, 2 P.M. well started to flow some gas and oil, shut-in one hour put well on ½ choke and well began to flow hard, Gauge as 3:00 PM - 4'10" follows:

3:30 PM - 5'10"

4:00 PM - 6'10

Well flowing at 450 - 525 #, made 40 bbls. oil in first hour Choke to 24/64th at 5:30 PM

8:00 PM - 8'10"

Well flowing at 450 - 475#, has made 80 bbls in 5 hours all oil , choke to 18/64th at 8:15 PM

6-30-93: 7:00 AM - Pressure down to 100#, well making water, total fluid down to trickle then comes in heads 10 - 30% oil. Shut well in one hour pressure to 1000#, open well to tank and flow hard for a few minutes then dies making 10 -30% oil

1:00 PM - Well dies then pressures up and starts to flow oil and water, decide to kill well and pull tubing up 10 feet, prepare to run inflatable packers to try to isolate oil and water zones. Will leave packer unset in tubing to test production while waiting on inflatables. In the past the well will gravity seperate and allow the production of oil with no water while flowing up the casing, will try this method while waiting.
Kill well with brine, nipple down BOP, pull up 10 feet, nipple up well head

7-1-93: Transfer oil from frac tanks to tank battery, water to pit, pump some oil down tubing displacing some kill water from casing to pit, holok up flow lines

7-2-93: well flowed 68 bbls. oil during day after being shut-in 24 hours Shut well in for now.

7-3-93: Made 36 bbls no water from casing flowing up to 525# then dead. Shut well in.

Well has made a total of $184\ \text{bbls}$. oil and $30-40\ \text{bbls}$ water

Test well for gravity seperation production capacity.

7-7-93: 10 AM Casing 1600# Tubing 0# Rig up swab and make 31 swab runs, swab kill water to pit well kicked off on 31st pull, recovered 32 bbls. oil, shut-in for night

7-8-93: 9:30 AM Casing 2300# Tubing 1850# bled down tubing in one hour made 3.5 bbls oil, shut-in till noon, tubing pressure up to 200#, open casing and tubing on $\frac{1}{2}$ choke began flowing at 12:45 PM.

4:00 PM Casing 900# Tubing 0 on 25/64th 7:00 PM Choke to 8/64th for night Well made 78 bbls. oil 5 bbls. water for the day

7-9-93: Casing 2240# Tubing 67#
Well made 1 bbls. oil overnight occasional small surge during this day,

4:00 PM shut-in Total 3 bbls. oil for day

7-10-93: Work on separator and flow lines, well shut-in

7-11-93: 9:00 AM Casing 2200# Tubing 600#
Work on separator
1:30 PM blow down tubing - no fluid
open casing on ½ choke
4:30 PM casing at 150# starting to make a good flow
of oil
8:00 PM well dead

Total: 25 bbls. oil, no water Shut well in

- 7-14-93: CP 1412, TP 650

 1:00 PM Open both on 14/64th
 3:00 PM CP 80 TP 25 small oil flow from casing
 4:00 PM CP 200 TP 25 making small oil from casing
 9:00 PM Made total of 15.5 bbls oil no water,
 open to ½ overnight, CP 125 TP 25
- 7-15-93: 7:30 AM CP 125 TP 20, made 7.5 bbls. oil no water over night
 12:00 PM CP 50 making about ½ bbl. per hour from casing, no water
 10:00 PM CP 0 TP 0 leave open on ½ overnight Total: 21 bbls. oil, no water since last night
- 7-16-93: CP 0-50 TP 20 made 6 bbls. overnight and a total of 13.5 for the day with no water, Shut well in
- 7-23 thru 7-26-93:

 Produced well on variable chokes allowing the well
 to build up pressure and gravity separate overnight
 well makes between 10 20 bbls oil per day and
 little if any water, will continue "on and off"
 basis until inflatable packer is set
- 8-15-93: Trip in and out with $4\frac{1}{2}$ bit, hole is in good shape, circulate and condition, pull 25 stands shut down for night
- 8-16-93: Pull remaining tubing, 71 stands 1 joint; make up 14.25' slotted 2 3/8 tubing joint plus 147' tubing with Baker single set sheer release inflatable packer above tubing, go in hole, tag bottom, pull up 4½ feet. Top of packer is 176 feet off the bottom of the hole. Set packer with 1500#. Shut down for night.
- 8-17-93: Rig up Fowler well service for swabbing Make 10 runs to 5000', rig can't go any farther, recover load water, fluid rises to 4500 feet after pulling from 5000. well won't kick off. total of 22 runs, last 12 from 5000' each pulling only 100 -200 feet of load water. Slow fluid entry. Shut down for night.
- 8-18-93: 7:30 AM Fluid tagged at 3700', rose 1300 feet over night, approximately 5 bbls., first pull from 4300 feet recovered 75-80% oil, Run 2: fluid 4200, pull 4800, 40-60% oil

Run 3: fluid 4400, pull 5000, 20% oil
Runs 4-8: pull from 5000' with very small recovery
of load water with a film of oil
Runs 9-11: pull from 5000' all as above, all 11
runs were gassy
Shut down and wait on bigger swab unit, recovered
20-25 bbls. load water so far

8-22-93: Rig up Delsco

Run 1: Tag fluid at 1600 pull from 3600 recovered 65-70% oil

Run 2: Fluid 3100, Pull 5100 recover load and film of oil, water getting lighter, 9.7# down 9.8 -9.9#

Run 3: Fluid 4700, Pull 6200, Gas cut water 9.5# Run 4: Fluid 5400, Pull 6900, Gassy 9.5# water with trace of oil, casing starting to go on

vacuum

Run 5: Fluid 5900 Pull 7400, Trying to flow, gassy, water 9.4-9.5#, all load should now be recovered, recovered 10-15% oil

Run 6: Swab won't go, well trying to flow, casing on vacuum, well settled down,

Fluid 2000 Pull 3000, recovered 9.8 -9.9#

Fluid 2900 Pull 3900, recovered 9.8 -9.9# water.

Run 7: Fluid 1600 Pull 2600, recovered 9.9# water

Casing is on vacuum, packer has failed and we are now swabbing in kill water from the back side. Runs 8-15: Recovered kill water from back side. Shut down for new packer

8-23-93: Trip out, packer had released, make up second packer with top at 8460', 370' off the bottom.

Below the packer is tubing with slotted joint 6 off the bottom. Set with 1600#, set down 2 feet in compression on tubing

8-24-93: Rig up swab

Runs: 1-4 went to 3200' total, fluid tagged at 2200' on 4th and pulled from 3200' waited 15 minutes after 4th

Run 5: Fluid 500 Pull 1500, recovered gas cut 9.7# water

Run 6: Fluid 600 Pull 1600, recovered 9.7#

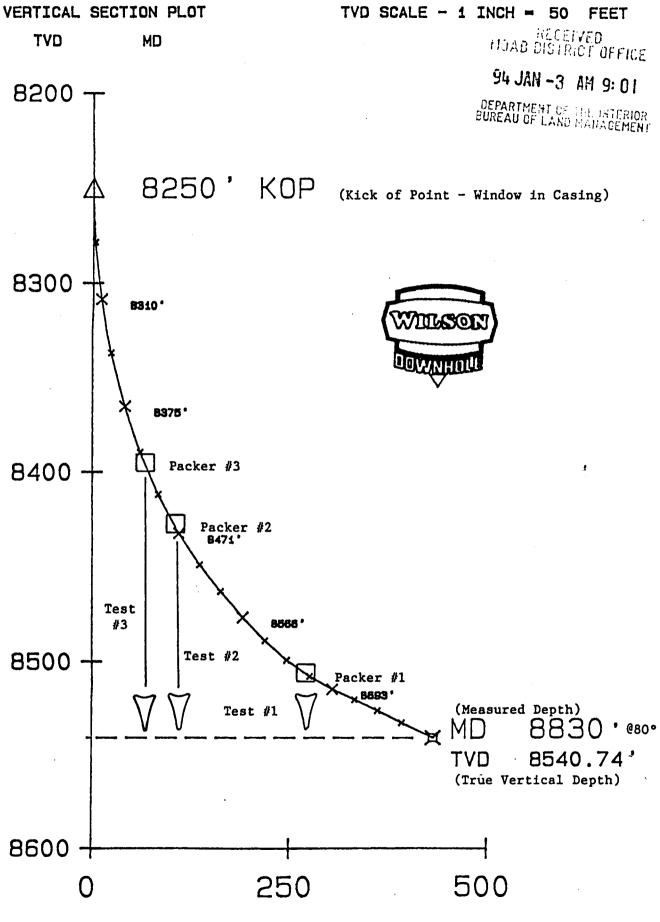
Run 7: Fluid 800 Pull 1800, recovered 9.5# water casing on vacuum, small blow tubing

Run 8: Fluid 500 Pull 2500, 9.6# water, well began to flow hard 75 -85% oil, casing blowing also, packer FAILED

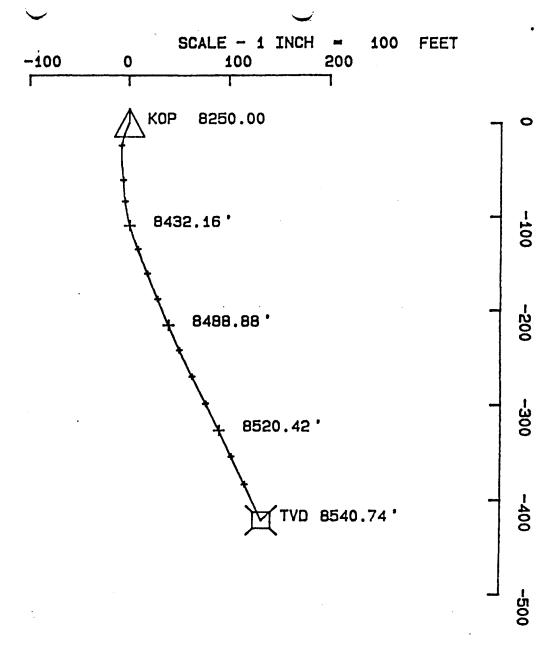
Runs 9-20: Well would flow hard after each pull for a few minutes then die, recovering 50-75% oil, shut down and wait for new packer

- 8-25 thru 9-4-93: Well produced thru casing by "on and off" method
- 9-4-93: Kill well, pull tubing, packer ruptured but not released. Run in with Backer rotational release packer with swivel bottom. Set at 1700#. Bottom tubing assembly same as before with slotted joint 8 feet off bottom. Top of packer at 8407 feet.

 Nipple down BOP, nipple up well head
- 9-7-93: Rig up Fowler, started pulling from 900 feet, with initial fluid at 400, got to 1500 feet on 9th run and the well kicked off. Initially flowing on \$\frac{1}{4}\$ choke with 475-500# TP. Casing side is dead. Well flowing 10-15 bbls. per hour, 75-85% oil.
- 9-8-93: Packer is holding, well to be tested on different chokes, plans to continue with further drilling of the horizontal leg being formulated.



DISTANCE OUT - PLANE OF PROPOSAL





Page 1

SARANAN LAND CO. MEGADON 1-15 SECTION 15 T23S R17E GRAND COUNTY, UTAH

Vert. Sect. Dir. = S 5.0000 E Calculations using the Radius of Curvature Method

Meas. Depth	Hole Ang.	T.V.D.	V. S. Dist.	Hole Dir.	Total Lat.	Coordinates Dep.	C L O S U Distance	RES Direction	D. L. Sev.
8250	.00	8250.00	.00	Vertica:	.00	.00	.00 N	.0000 E	.00
8279	12.00	8278.79	2.67	S 23.00	W 2.79	S 1.18 W	3.03 8	23.0000 W	41.38
8310	22.00	8308.40	10.77	S 20.00	W 11.21		12.08 5	21.8758 W	32.38
8342	29.50	8337.20	23.97	S 5.40	W 24.72	S 7.55 W	25.85	16.9725 W	30.70
8375	34.30	8365.21	41.32	S 6.90	E 42.12	s 7.32 W	42.75	9.8556 W	24.49
8406	41.90	8389.58	60.43	S 3.50	E 61.15	s 5.59 W	61.41 S	5.2187 W	25.43
8438	49.50	8411.92	83.32	S 5.10	E 83.97	S 3.87 W	84.06	2.6384 W	24.02
8471	54.80	8432.16	109.21	S 15.90	E 109.55	S .87 E	109.55	.4551 E	30.43
8503	61.10	8449.13	135.60	S 20.40	E 135.30	S 9.31 E	135.62	3.9374 E	23.02
8534	65.30	8463.10	162.26	S 20.50	E 161.22	S 18.98 E	162.33	6.7137 E	13.55
8566	65.90	8476.32	190.28	S 21.40	E 188.44	S 29.40 E	190.72	8.8672 E	3.17
8598	67.90	8488.88	218.52	S 21.40	E 215.84	S 40.14 E	219.54	5 10.5343 E	6.25
8629	72.70	8499.32	246.38	S 23.10	E 242.84	S 51.18 E	248.18	5 11.9021 E	16.32
8661	76.00	8507.96	275.44	S 25.70	E 270.90	S 63.91 E	278.34	3 13.2746 E	12.95
8693	79.60	8514.72	304.64	S 26.20	E 299.02	S 77.60 E	308.92	5 14.5474 E	11.35
8724	79.20	8520.42	333.22	S 24.40	E 326.57	S 90.62 E	338.90	5 15.5085 E	5.85
8755	78.70	8526.36	361.96	S 23.90	E 354.33	S 103.06 E	369.01	5 16.2183 E	2.26
8788	78.80	8532.80	392.50	S 24.80	E 383.81	S 116.41 E	401.08	5 16.8723 E	2.69
8795	78.90	8534.15	398.98	S 23.70		S 119.23 E	407.89	5 16.9962 E	15.48
Project	cion of	previous	Build Rate	e 35	feet				

8830 79.40 8540.74 431.54 S 23.70 E 421.55 S 133.05 E 442.05 S 17.5163 E 1.43 ADDENDUM: VERTICAL ASSUMED AT 8250' AS REQUESTED BY SARANAN LAND C

Bottom Hole Closure 442.05 at S 17.5163 E

UNITED STATES SUBMIT IN DUPLE E

DEPARTMENT OF THE INTERIOR

Structions reverse si

GEOLOGICAL SURVEY

Form approved. Budget Bureau No. 42-R355.5.

structions on reverse side)	5.	LEASE	DESIGNATION	AND	SERIAL	No.
- 1						

	_					1 0-31903	4			
WELL CO	MPLETION	OR RECO	MPLETION	REPORT A	ND LOG*	6. IF INDIAN, A	LLOTTEE OR TRIBE NAM			
1a. TYPE OF WE	·		7. UNIT AGREEMENT NAME							
b. TYPE OF COM	IPLETION:	WELL WELL	DRY	Other		_ I. UNIT AUREEM	2111 11221			
NEW WELL	WORK DEEP-	8. FARM OR LEA	S. FARM OR LEASE NAME							
2. NAME OF OPERA		Federal								
Megado	n Energy Cor	9. WELL NO.	D.							
3. ADDRESS OF OPE			Salt Wash #1-15							
	20; 175 Sout		10. FIELD AND POOL, OR WILDCAT Salt Wash							
4. LOCATION OF WE At surface N		11. SEC., T., R., M., OR BLOCK AND SURVEY								
		OR AREA	OR AREA							
At top prod. in	terval reported belov	V				NWSW Sec	NWSW Sec. 15-23S-17E. SLM			
At total depth	- Gill	211				SLII	Shiri			
1415 13	1,546' €	W	14. PERMIT NO.	DATI	ISSUED	12. COUNTY OR PARISH	13. STATE			
			43-019-	30752		Grand				
15. DATE SPUDDED	Harrier and the Contract of th	· · · · · · · · · · · · · · · · · · ·	TE COMPL. (Ready t	o prod.) 18. ELI	EVATIONS (DF, RK	B, RT, GR, ETC.)* 19	. ELEV. CASINGHEAD			
5-27-93 20, total depth, md	9-8-93	BACK T.D., MD 4	mm 99 te Mili	TIPLE COMPL.,	23. INTERVAL	S ROTARY TOOLS	CABLE TOOLS			
10 4dox T	102616	DAUR I,D., AD C	How M		DRILLED B		CABLE TOOLS			
24. PRODUCING INTE	V V OF THIS CO	MPLETION-TO	P. BOTTOM, NAME (MD AND TVD)*	<u> </u>		25. WAS DIRECTIONAL			
18 A . [0]	0		., ., ., ., ., ., ., .,				SURVEY MADE			
11155	· F -									
26. TYPE ELECTRIC	AND OTHER LOGS RUI	1				27.	WAS WELL CORED			
<u>, </u>				,						
28.			ING RECORD (Rep		in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH S	ET (MD) HO	LE SIZE	CEMENTI	NG RECORD	AMOUNT PULLED			
· · · · · · · · · · · · · · · · · · ·							3 5 5 6 6 6			
 					1					
- <u> </u>										
29.	LI	NER RECORD		<u> </u>	1 30.	TUBING RECORD				
SIZE	TOP (MD) B	OTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
:						493733				
							1.75.745.			
31. PERFORATION REC	CORD (Interval, size	and number)		82. A	CID, SHOT, FRA	CTURE, CEMENT SQ	ueeze, etc. 🗅			
	e e e			DEPTH INTERVA	L (MD)		COUNT AND KIND OF WATERIAL USED			
See Attacl	hed Report o	f Re-enti	cv		<u> </u>					
							<u> </u>			
	-		,	3		<u> </u>				
33.*			PRGI	DUCTION	<u> </u>	. 4.5 * * * * .	<u>ប៉ុ ស្ត្រីសុទ្ធ ដែរ ។</u> ទី១ ៤ ទើងជន្លាស់			
DATE FIRST PRODUCT	ION PRODUCT	ION METHOD (Flowing, gas lift, pr		type of pump)		Us (Producing or			
					· ,	shut-in)				
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL.	GAS-MCF.		GAS-OIL BATIO			
			`	The Residual State Control of the Co	had spine as response to the	1327 1545				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RAT	OIL-BBL,	Eval-wor.	WATE	R-BBL. OIL	GRAVITY-API (CORR.)			
24 - DISDOGUETON OF O	10 (9014 1104 400 40	<u> </u>		A STREET, STRE	and the second s		<u> Radio de la composición del composición de la composina de la composición de la composición de la composición de la co</u>			
34. DISPOSITION OF G	AS (Sola, usea for fu		Tanan arang menganakan dan kecamatan dan kecamatan dan kecamatan dan kecamatan dan kecamatan dan kecamatan dan	- WOW 1	C IDO A	TEST WITNESSED	BYANG SERVICES			
35. LIST OF ATTACH		 			5 1994	1 0 15 V 3 6 V				
. : (Horizontal R	e-entry T	Report		-	A STATE OF THE STA				
36. I hereby certify	that the foregoing	ind attached in	nformation is comp	NOTO OFFI	S & AMMAN	m all available record	8 5 4			
· \//	loll no	VX 1//.		Tall la		easules)				
SIGNED	erens.	x yacel	Mall TITLE	gerrera	up Ne	DATE_				

Megadon Federal 1-15 T23S, R17E Section 15 Grand County, Utah

Horizontal Re-entry

5-27-93 to 5-30-93: Move in rig-up Win Rock Drilling Rig #7

5-31-93: Nipple down wellhead, nipple up BOP, pull 2 3/8 tubing and lay down, set bridge plug at 8262 feet, nipple down BOP and tubing head

6-1-93: Nipple up 5000# BOP, gas buster and choke lines, pressure test BOP, strap drill pipe

6-2-93: Set in triplex pump, pick up drill pipe, circulate and condition

6-3-93: POOH, pick up bottom hole assembly and whipstock, whipstock tagged up at 6949', chain out of hole, pick up mills and ream out hole

6-4-93 POOH, pressure test casing, OK, pick up tools and whipstock and go in hole

6-5-93 go in hole with whipstock, pick up kelly, fill pipe with fluid , break circulation

6-6-93: Set and orient whipstock at 8247' (top), change swivel packing and work on pump, mill at 8246', repair rotary table, mill, trip out for window mill and mill from 8246' to 8254' into formation

6-6-93 Mill, POOH make up BHA, service rig, Trip in with downhole motor and bit

6-7-93: Run gyro, start to drill, cut 90' drill line, change liners in pump

6-8-93: Wait on bit, fill hole, rig up wire line and align bit, drill $6\frac{1}{2}$ hours, shut down for Columbia Pictures $9\frac{1}{2}$ hr. MD 8363'

6-9-93: Shut down for Columbia Pictures $11\frac{1}{2}$ hours, survey and chain out of hole

6-10-93: Realign tool, TIH, rig up wireline and wet connect, drill $13\frac{1}{2}$ hours, MD 8436'

6-11-93: Drill, POOH, rerig wireline, MD 8460'

6-12-93: Chain out, realign bit, TIH, wash and ream, Drill 8 hours, MD 8466'

MOV 1 5 1994

6-13-93: Drill, trip out of hole to pick up magnet to get junk out of hole, trip back in, MD 8471'

6-14-93: Finish trip back in with mill to mill up junk, rig service, TOOH, drill $6\frac{1}{2}$ hours, MD 8491'

6-15-93: Drill 16 hours, TOOH, change angle on motor, TIH MD 8514'

6-16-93: TIH, circulate out gas kick, raise mud from 8.9 to 9.5, drill $13\frac{1}{2}$ hours, MD 8555'

6-17-93: Drill, MD 8595'

6-18-93:Drill, survey, POOH for new bit, TIH, ream and wash, drill $7\frac{1}{2}$ hours, MD 8641'

6-19-93: Drill MD 8719

6-20-93: Drill, service rig, MD 8801

6-21-93: Drill 13 hours, POOH, displace well with brine water, prepare to test, MD 8830, TVD 8540

6-22-93: circulate and condition, wait on brine, lay down drill pipe. MD 8830, TVD 8540; From window cut in 5½ casing at 8250' Total of 421 feet drilled; Coordinates are 421.55 South 133.05 East

6-22-93: nipple down BOP, Nipple up small BOP, run 2 3/8 tubing with packer at 5295'wait on test

6-28-93: Bottom of tubing at 8819', open hole from 8250 to 8830, wash with 300 gallons 10% HCL wait one hour, open to pit on 48/64th, flowed 12 bbls. acid water in one hour, leave open to frac tank over night

6-29-93: well flowed 53 bbls. kill water overnight, at 12:30 P.M. had 100# on tubing with small intermitent flow, 2 P.M. well started to flow some gas and oil, shut-in one hour put well on $\frac{1}{2}$ choke and well began to flow hard, Gauge as follows: 3:00 PM - 4'10"

3:30 PM - 5'10"

4:00 PM - 6'10

Well flowing at 450 - 525 #, made 40 bbls. oil in first hour Choke to 24/64 th at 5:30 PM

8:00 PM - 8'10"

Well flowing at 450 - 475 #, has made 80 bbls in 5 hours all oil , choke to 18/64 th at 8:15 PM

6-30-93: 7:00 AM - Pressure down to 100#, well making water, total fluid down to trickle then comes in heads 10 - 30% oil. Shut well in one hour pressure to 1000#, open well to tank and flow hard for a few minutes then dies making 10 - 30% oil

MOV 1 5 1994

1:00 PM - Well dies then pressures up and starts to flow oil and water, decide to kill well and pull tubing up 10 feet, prepare to run inflatable packers to try to isolate oil and water zones. Will leave packer unset in tubing to test production while waiting on inflatables. In the past the well will gravity seperate and allow the production of oil with no water while flowing up the casing, will try this method while waiting.
Kill well with brine, nipple down BOP, pull up 10 feet, nipple up well head

7-1-93: Transfer oil from frac tanks to tank battery, water to pit, pump some oil down tubing displacing some kill water from casing to pit, hoOok up flow lines

7-2-93: well flowed 68 bbls. oil during day after being shut-in 24 hours Shut well in for now.

7-3-93: Made 36 bbls no water from casing flowing up to 525# then dead. Shut well in.

Well has made a total of 184 bbls. oil and 30-40 bbls water

Test well for gravity seperation production capacity.

7-7-93: 10 AM Casing 1600# Tubing 0# Rig up swab and make 31 swab runs, swab kill water to pit well kicked off on 31st pull, recovered 32 bbls. oil, shut-in for night

7-8-93: 9:30 AM Casing 2300# Tubing 1850# bled down tubing in one hour made 3.5 bbls oil, shut-in till noon, tubing pressure up to 200#, open casing and tubing on $\frac{1}{2}$ choke began flowing at 12:45 PM.

4:00 PM Casing 900# Tubing 0 on 25/64th 7:00 PM Choke to 8/64th for night Well made 78 bbls. oil 5 bbls. water for the day

7-9-93: Casing 2240# Tubing 67#
Well made 1 bbls. oil overnight occasional small surge during this day,
4:00 PM shut-in
Total 3 bbls. oil for day

7-10-93: Work on separator and flow lines, well shut-in

7-11-93: 9:00 AM Casing 2200# Tubing 600#
Work on separator
1:30 PM blow down tubing - no fluid
open casing on a choke
4:30 PM casing at 150# starting to make a good flow
of oil
8:00 PM well dead

NOV 1 5 1994

Total: 25 bbls. oil, no water Shut well in

7-14-93: CP 1412, TP 650

1:00 PM Open both on 14/64th

3:00 PM CP 80 TP 25 small oil flow from casing 4:00 PM CP 200 TP 25 making small oil from casing

9:00 PM Made total of 15.5 bbls oil no water,

open to ½ overnight, CP 125 TP 25

CP 125 TP 20, made 7.5 bbls. oil no water 7-15-93: 7:30 AM over night 12:00 PM CP 50 making about ½ bbl. per hour from

casing, no water

CP 0 TP 0 leave open on ½ overnight 10:00 PM Total: 21 bbls. oil, no water since last night

7-16-93: CP 0-50 TP 20 made 6 bbls. overnight and a total of 13.5 for the day with no water, Shut well in

7-23 thru 7-26-93:

Produced well on variable chokes allowing the well to build up pressure and gravity separate overnight well makes between 10 - 20 bbls oil per day and little if any water, will continue "on and off" basis until inflatable packer is set

Inflatable packer tests 8-14-93: Kill well, nipple down well head, nipple up BOP, pull tubing,

- 8-15-93: Trip in and out with $4\frac{1}{2}$ bit, hole is in good shape, circulate and condition, pull 25 stands shut down for night
- 8-16-93: Pull remaining tubing, 71 stands 1 joint; make up 14.25' slotted 2 3/8 tubing joint plus 147' tubing with Baker single set sheer release inflatable packer above tubing, go in hole, tag bottom, pull up $4\frac{1}{2}$ feet. Top of packer is 176 feet off the bottom of the hole. Set packer with 1500#. Shut down for night.
- 8-17-93: Rig up Fowler well service for swabbing Make 10 runs to 5000', rig can't go any farther, recover load water, fluid rises to 4500 feet after pulling from 5000. well won't kick off. total of 22 runs, last 12 from 5000' each pulling only 100 -200 feet of load water. Slow fluid entry. Shut down for night.
- 8-18-93: 7:30 AM Fluid tagged at 3700', rose 1300 feet over night, approximately 5 bbls., first pull from 4300 feet recovered 75-80% oil, Run 2: fluid 4200, pull 4800, 40-60% oil

NOV 1 5 1994

OIV OF OIL, GAS & MINING

Run 3: fluid 4400, pull 5000, 20% oil
Runs 4-8: pull from 5000' with very small recovery
of load water with a film of oil
Runs 9-11: pull from 5000' all as above, all 11
runs were gassy
Shut down and wait on bigger swab unit, recovered

8-22-93: Rig up Delsco

Run 1: Tag fluid at 1600 pull from 3600 recovered 65-70% oil

20-25 bbls. load water so far

Run 2: Fluid 3100, Pull 5100 recover load and film
 of oil, water getting lighter, 9.7# down
9.8 -9.9#

Run 3: Fluid 4700, Pull 6200, Gas cut water 9.5#
Run 4: Fluid 5400, Pull 6900, Gassy 9.5# water with
trace of oil, casing starting to go on

vacuum

Run 5: Fluid 5900 Pull 7400, Trying to flow, gassy, water 9.4-9.5#, all load should now be recovered, recovered 10-15% oil

Run 6: Swab won't go, well trying to flow, casing on vacuum, well settled down,
Fluid 2900 Pull 3900, recovered 9.8 -9.9# water.

Run 7: Fluid 1600 Pull 2600, recovered 9.9# water

Casing is on vacuum, packer has failed and we are now swabbing in kill water from the back side. Runs 8-15: Recovered kill water from back side. Shut down for new packer

8-23-93: Trip out, packer had released, make up second packer with top at 8460', 370' off the bottom.

Below the packer is tubing with slotted joint 6 off the bottom. Set with 1600#, set down 2 feet in compression on tubing

8-24-93: Rig up swab

Runs: 1-4 went to 3200' total, fluid tagged at 2200' on 4th and pulled from 3200' waited 15 minutes after 4th

Run 5: Fluid 500 Pull 1500, recovered gas cut 9.7# water

Run 6: Fluid 600 Pull 1600, recovered 9.7#

Run 7: Fluid 800 Pull 1800, recovered 9.5# water casing on vacuum, small blow tubing

Run 8: Fluid 500 Pull 2500, 9.6# water, well began to flow hard 75 -85% oil, casing blowing also, packer FAILED

Runs 9-20: Well would flow hard after each pull for a few minutes then die, recovering 50-75% oil, shut down and wait for new packer

- 8-25 thru 9-4-93: Well produced thru casing by "on and off" method
- 9-4-93: Kill well, pull tubing, packer ruptured but not released. Run in with Bakker rotational release packer with swivel bottom. Set at 1700#. Bottom tubing assembly same as before with slotted joint 8 feet off bottom. Top of packer at 8407 feet. Nipple down BOP, nipple up well head
- 9-7-93: Rig up Fowler, started pulling from 900 feet, with initial fluid at 400, got to 1500 feet on 9th run and the well kicked off. Initially flowing on \$\frac{1}{4}\$ choke with 475-500# TP. Casing side is dead. Well flowing 10-15 bbls. per hour, 75-85% oil.
- 9-8-93: Packer is holding, well to be tested on different chokes, plans to continue with further drilling of the horizontal leg being formulated.

D. L.

SARANAN LAND CO.
MEGADON 1-15
SECTION 15 T23S R17E
GRAND COUNTY, UTAH

Vert. Sect. Dir. = S 5.0000 E Calculations using the Radius of Curvature Method

Meas. Hole T.V.D. V. S. Hole Total Coordinates C L O S U R E S

Depth Dir. Anq. Direction Dist. Lat. Dep. Distance Sev. 8250 .00 8250.00 .00 Vertical .00 .00 .00 N .0000 E .00 8279 12.00 8278.79 2.79 S 1.18 W 2.67 S 23.00 W 3.03 23.0000 W 41.38 8308.40 8310 22.00 10.77 S 20.00 W 11.21 S 4.50 W 12.08 21.8758 W 32.38 23.97 24.72 S 8342 29.50 8337.20 7.55 W 25.85 S 5.40 W S 16.9725 W 30.70 8375 34.30 8365.21 41.32 S 6.90 E 42.12 S 7.32 W 42.75 S 9.8556 W 24.49 8406 41.90 8389.58 60.43 S 3.50 E 5.59 W 61.15 S 5.2187 W 25.43 61.41 8438 5.10 E 49.50 8411.92 83.32 83.97 S 3.87 W 84.06 S 2.6384 W 24.02 S 8471 54.80 S 15.90 E 8432.16 109.21 .4551 E 30.43 109.55 S .87 E 109.55 S 8503 61.10 8449.13 135.60 S 20.40 E 9.31 E 3.9374 E 23.02 135.30 S 135.62 S 8534 65.30 8463.10 162.26 S 20.50 E 161.22 S 18.98 E 162.33 S 6.7137 E 13.55 8566 65.90 8476.32 190.28 S 21.40 E 188.44 S 29.40 E 190.72 S 8.8672 E 3.17 8598 67.90 8488.88 S 21.40 E 215.84 S 218.52 40.14 E 10.5343 E 219.54 S 6.25 8629 72.70 8499.32 246.38 S 23.10 E 242.84 S 51.18 E 248.18 S 11.9021 E 16.32 8661 76.00 8507.96 275.44 S 25.70 E 270.90 S 63.91 E 278.34 S 13.2746 E 12.95 8693 79.60 8514.72 304.64 S 26.20 E 77.60 E 14.5474 E 11.35 299.02 S 308.92 S 79.20 8520.42 S 24.40 E 326.57 S 15.5085 E 8724 333.22 90.62 E 338.90 S 5.85 8526.36 8755 78.70 361.96 S 23.90 E 354.33 S 103.06 E 369.01 S 16.2183 E 2.26 78.80 392.50 8788 8532.80 S 24.80 E 383.81 S 116.41 E 401.08 S 16.8723 E 2.69 8795 78.90 8534.15 398.98 S 23.70 E 119.23 E 390.08 S 407.89 S 16.9962 E 15.48 Projection of previous Build Rate 35 feet

8830 79.40 8540.74 431.54 S 23.70 E 421.55 S 133.05 E 442.05 S 17.5163 E 1.43 ADDENDUM: VERTICAL ASSUMED AT 8250' AS REQUESTED BY SARANAN LAND C

Bottom Hole Closure 442.05 at S 17.5163 E

HORIZONTAL PLOT SCALE - 1 INCH 100 FEET -i00 200 100 KOP 8250.00 0 8432.16' -200 8488.88 -300 8520.42' -400 TVD 8540.74'





OF OIL, GAS & MINING